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Title
Mrs

First name
tshingombe

Surname
tshitadi

Company name
tshingombe tshitadi ,engineering stpeace college afric institu police

Email address
tshingombefiston@gmail.com

Phone number
0725289946

Your request

Your request

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**project engineering design police crime investigatin principle, manangement information system , skill administration , principle conduct, delivery service, enlncident logged on 2024/06/23 2:12:06 PM (UTC 02:00) - Africa/Johannesburg; was resolved on 2024/06/25 9:20:59 AM (UTC 02:00) - Africa/Johannesburg Inbox csd@treasury.gov.za 10:21 AM (1 hour ago) to me Dear Tshingombe Fiston, We are committed to providing you with an EXCELLENT CUSTOMER SERVICE experience. We would like your feedback about the manner in which we handled your query/request. Click here to fill out survey Incident# 1900050 has been resolved: Resolution Kindly refer to email sent from csd@treasury.gov.za Incident # 1900050 Summary: CSD Registration Process Customer Name: Tshingombe Fiston Location: Priority: 5 Status: Resolved Category: CSD Registration Process Resolved On: 2024/06/25 9:20:59 AM (UTC 02:00) - Africa/Johannesburg Description Important: This email originated from an external sender. Please do not click on email links or open attachments you do not expect. When in doubt, please contact the ICT Service Desk. Re:/ award diplomat certificate,marksheet transcript letter experience theoretical practical engineering n studies outcome Inbox tshingombe fiston > May 20, 2024, 6:26 PM -Address:postal. -Francis bard Pretoria Department of Higher Education and Training 123 Francis Baard Street, Pretoria Central Room 506_012 312 5440 To:St peace college and instituts, tvet Dhet -Date :subject :completion letter : Practice experimental log book. ____ -1. To concerne This letter serves confirm .Mr was participations in the work integrated learning programme of department : Dhet research assessment irregularity national examination nated n4 to additional information and workbased on visited circular practice external on line job work practice on department of energy minimal compagny career CVS and industrial portal council work city power day visited on line Facebook,Gmail badges,Eskom career day 28day appointment,sarb career engineering artisan electrical electronics engineering,Microsoft Scheiner career certificate training, Eaton electrical dtic day project engineering ,sasseta saps topics assessment self assessment draw share tabl engineering electrical planing, 1.2.design of reporting template: tableexcell ups engineering electrical software. -management and training assessment panel wiring electrical -assiste with headling career filing . -capturing of career information system.database recruitment informers investigation electrical data source reports.career portal advices . -sorting distribution files information management system Education irregularite database system Portofilio. -allocated consultation and information record management system database assessment.engineering -handing inquired admnise communication skill , orientation industrial design template attandance registration on line form visual basic ,excell ms word - -relation labour handing of Portofilio survey interpretation status .. -duty monitoring assessment moderator assessor engineering electrical n studies and level irregularite material suspension transcript marksheet years . Staff, daily staff delegation compilation of duty . -monitor -filing of retrieval of engineering assessment transcript record instituts saqa college topics project azure back log ..hrs practitioner.. ____ 1.3.library and information service :sciebono career center and St peace college info class re rwiten "Engineering science career" , -research process : research method plan and disc ,collected and collected capture analyse collaborate and create management store preserve share and publish assessment textbook topic, monitoring and evaluation,emerging qualitative and quantitative missing text book engineering electrical. -research methodology engineering electrical topics vs research triangle.qualitative methods quantitative methods ethnographic participate observations studies depth description engineering communication source data engineering ethnographic r group, participate research observation, survey aim to provide overview, -experimental design hypothesis control conditions physic psychometric technical .field natural experimental research a experimentation sample of large . -secondary data analysis using existing data it aim. - conceptual analyse meaning of ward or concept clarification theory buildings on role building studies,literature review studies . -types of qualitative research design ground theory research narrative.historical case studies and phenomenology design engineering field. -grounded theory is systematic procedure of data analysis typically associated,phenological studies design engineering electrical,case study research advanced field, -wath are research method in library data collection first is to choose a suitable methode for collecting primarily data depending reseach topics objectives methode interview observations and case subject.. -step of library research process identify and development topics do preliminary locate material evaluation make note ,rwiten papper ,import method for data collection ,survey quantitative interview library. .1.4.1.technical documentation in simple steps: business files and data during operation documents size store career control access keeps record and analysis career outline engineering step on line save download day part time learning. -consider a degree or certificate. -develoo skil on experience. -primairy :collecting record work clerk retrieved engineering career . -cataligi g data files and digitalise create file documentation organisation job engineering research analysis thing .technical knowledge soft ward .help desk technician types customer service , responding to customer support inquiries and documents feedback from customers .Google it support rating . -research faculty teach and learning research lab learning environment clinical simulation practice of simulation teach to develop outcome student team work communication self assessment, simulation lab assessment,task training task oriented , simulation lab ,booking Education technology, engineering ,engineering ,engineering ,

average | 18.00 % | -/- -for annual fixed Charge (9450×10 ,exp)(118/100)=18709×10 ,exp ,6 Annual fixed charge Annual cost used for compare ---- 91,69×10 ,exp 10 ,exp 6 - cost penalty ---- -3.14. Explanation :Overhead transmission line and under ground cables : calculate flux one conductor -inductive impedance @ ©. ß. - transmission line geometry portion Diagram ... effect of mutual flux line, - charge two conduct ... Is , RK, K JR Long lines Vs = VR+IRZe)(exp(VR-IR-Ze)e exp ab along ls=+VR/Zc+IR)exp + (VR/ Ze -IR) exp - + alpha = Zc= √ Zr/y- , propagation cost , alpha = √ Z.y , per kilometre . - calculating sending voltage for (200 m transmission line receiving to - line voltage ,is 239 kV ,and the is 200 at power factor ,0.8 logging promote ,R=0.2 ohm , L = 2 MH , C = 0,01 if , f = 60 Hz determine YL , and ZL , TL = hw × CL × 1/hw .1=jb×77(0,01)(19 exp -6)/km×320km=j.1206 micros sub(micro second) ZL=RL/km×1×LL/km.×1=0,2 ohm/km(329km)+377(2)(10 exp -3) ohm / km × 329 km =-6,4+j241,3ohm capacitance to neutral for conductor transmission line ,if = E=P×L×2×10^-6 ×r Vab=(resistivity ×Length÷2×π×r€) Ln(b÷a) En=(resistivity ×Length÷2×π×€)[1÷r-1÷(r-D)].V/m r>a ,center -V1.r=(resistivity ×Length÷2×π×€)ln[r-(D-a)÷a(D-r)].C -D>a ,V÷2=(resistivity ×Length÷π×€)Ln(D÷a)×V -C^q÷V, Q= resistivity ×length ,, C=C'/Lor,C ,,π÷Ln(D÷a), f/m -find capacitance to neutral for conductor transmission line ,if = D=8ft×(2,4m),a=0,25 in (0,0°625) Length of line is @0m.(16km), frequency is 377 Rod -ZC=1÷w×c , substitute for ,X=0,0388 ,log (D÷a) obtain - XC=1÷(377)(0,0388)(@0)÷log (2,4÷0,00625))=0,0026 M, -phase quadrature components ,Volt at , V1= 120°/_0° , phasorw locked rotor ,ls=8,4/_-145° A=8,13-j2,10A , similarly In= 12,64/_-40,0° ,A = 9,69-j8,18 In phase = 8,13+9,69=17,82A lquad , r =j2,10-j8,13=-j10,23A I star = 20 cos 29°,86=0,867 Tstart = k.lm.sin.a =(0,18V,s/A)(0,4A)(12,05).sin 25 =8,46V ZA=Za=bZx=Ca=Zav-Zbc+Zc Zb=Zab.Zbc=Zab+Zbc+Zca Zc=Zbc.Zcc=Zab+zbc+Zca Zab=Zab+ZbZc+ZcZ=Zc Zbc=Zazb+Zb.zc+Zc.zc=Zazb+Zb.zc+Zc.zc=Zazb+Zb.zc+Zc.zc-iz=zb ---------- (Xa.zb+xb.xc+XC.xa)÷xc zbc=(xa.xb+xb.xc+XC.xa)÷xa XB.xc=XC.xa)÷xb Xa=Zab.xa=xa+xbc+xca XC=xbc=xca+xab=xa(xb+xc)+xbc Label Generator :12,2 kV, x°=0,19pu,50.000kva Motor 1: 30000KVA,X"=0,29per ,,4,2kv Motor 2: 20.000kva,X"=0,25 , 2,2 kV cfo - Primary : 13,2kv, 30MVA,,, Secondary: 4,2kv, 30MVA,, Tertairw :2,2kv,,20MVA ---------- Label ,R'(0,68,,,,L2=10.012; ,j0,002, equivalent,0,034 Correct motor reactance ,X" motor ,0,2 base ,30.000kva , 4,2kv, (0,20)(50,000/30000)(4,2/13,2)Exp 2=0,034Pa, X" load 2, 20000Kva , 2,2kv (0,25)(50,000/20.000)(2,2/13,2).xco 2=0,017 Calculation of electrique power ,P=jQ Balanced 3 phase, .. 5.0/_-37°, line voltage ,is 69/_0°.per unit base of ,10000KVa and 72 kV,, - design drawings , .lx. Matrix [0. 1. 1 | 1/_ 60°. 0. J | 1/_ 120° -1. J| ---------=0,863/_191,67° |1. 1. 1| |-1. 0. J| 0. -1. J Explanation-Electric-power transmission line ,// 13,2kv , and ,13,2166, sending bus ,6,6kv ,,Tertia ,transfo motor , 7,5kv , and transfo 66 kV /12 kV , output ,6motor M1,M2,M3,M4,M5,M6, 0f 12 kV parallel ,, Labell , circuit generator with tree generation Serie ,j0,101,,,j0,03, j0,10 line and transfo two motor Ma,MB ,impedance ,j 0,222,,,h0,333 ---------- Explanation Generator 1=40.000kv, 13,2kv, X"=0,20 Generator 2=30000kv, X"=0,25 Pu Transformer=75,000kV , 13,2kv,, 66,kV, x = Pu ---------- Calculate , impedance :3000kva , Jxtotal=(j0,15) (j0,25)+(j0,04=0,134pu ---------- Generator react . X"=(0,25)(3000/300000)=0,24pu 30.000kva,, X"=(0,25)(75,000)/300000=0,625pu Transfo reactance , X=(0,1)(30,000/75.500)=0,04 ohm pu 30.000kva ,base 3.14. -explanation :Phase shift in Wye Delta.H2=B,, IBH2=A,IA,IAn,,,,Generator GA ,line ,motor 0ne,ZB=0,6+j0,77 GB ,ZA=15+j1,5 ohm On -Sine:3.14Vcos,P=E×I×cosΦ-R×A=E×c -explanation: -Sus IV^, Is, Vs, Vs^, bus j ,,,pl.you, IPS ,,,-find slack bus power PG, ,i-j Yn=ls+ip(v1-vy)vs+V1.pl -Power, Sn=Pn+jQn=V1.In=V1(V1-Vj)/yij+V1.j.y1,yP1. Sjn=Pjn+jQn=Vj.Yij=Bij(V1x-Vj1)+Vj.yij.^P1. -Power loads in line (1-j) Slip=Sij+Sxi -Flux'=f(a)+(x-a).dlf=d(x)-x(-a).=f'(x-a).exp(-a).n!×d n exp f =dx , df=dx[x, ---- ----- ---- ---- ---

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Emmanuel Ramovha Mbuwe Chief Director: Occupational Quality Assurance Mbuwe.E@qcto.org.za Switch Board: +27 12 003 1800 Direct Tel: +27 12 003 1819 256 Glyn Street, Hatfield, Pretoria, 0083 Private Bag X278, Pretoria, 001 www.qcto.org.za QCTO Fraud and Ethics Hotline FreeCall: 0800111894 qcto@tehotline.co.za
FreeFax: 0867 26 16 81 www.tehotline.co.za This message is intended for the addressee only and is confidential and the copying thereof is prohibited. The above information may contain personal views of the author thereof and is not necessarily the views of the Quality Council for Trades and Occupations (QCTO) and the QCTO does therefore not accept liability for the correctness of the facts stated in this communication, unless specifically stated. If you have received this message in error, please notify the sender immediately and delete the original message. Thank you for your assistance. Thank you for the information. Thank you for your response. 2024-24-06-4379Inquiry Inbox Central Office Mon, Jun 24, 3:52 PM (20 hours ago) to me Good day. We hereby acknowledge the receipt of your inquiry. Below is a summary of your inquiry. One of the QCTO representatives will contact you to assist. Reference Number:2024-24-06-4379 Email : Application Update Inbox Search for all messages with label Inbox Remove label Inbox from this conversation Met Recruitment Team Sun, Jun 23, 8:25 PM (15 hours ago) to me Vacancy: 17305 - Development Operations Engineer - Band N - Counter Terrorism Policing HQ Dear tshingombe, Thank you for your application for a new position within the Met. To be eligible to apply for this new position, we have a set of criteria that applicants need to meet. Based on the information you have shared so far; we regret to inform you that you are not eligible to progress with your application. Your individual answers suggest that you do not meet the application criteria. You can read more about our eligibility criteria on our Careers Website or by reviewing information available on MyHR. We understand that this will be disappointing news for you but would like to thank you for your interest in this position and wish you all the best for the future. Shared Services Connected Ltd – Delivering services in partnership with the Metropolitan Police Service Phone: 01633 632500 Email: Enquiries.PoliceJobs@police.sscl.com Met Recruitment Team Sun, Jun 23, 8:30 PM (15 hours ago) to me Dear tshingombe Thank you for applying for an event at the Metropolitan Police Service. We are sorry that you have decided to withdraw your application. our records have now been updated to reflect this. Should you change your mind in the future, you can re-apply for this opportunity via the Met Careers website. Met Recruitment Team Sun, Jun 23, 8:35 PM (15 hours ago) to me Vacancy: 17418 - Specialist Operations Recovery Manager Dear tshingombe, Thank you for your application for a new position within the Met. To be eligible to apply for this new position, we have a set of criteria that applicants need to meet. Based on the information you have shared so far; we regret to inform you that you are not eligible to progress with your application. Your individual answers suggest that you do not meet the application criteria. You can read more about our eligibility criteria on our Careers Website or by reviewing information available on MyHR. We understand that this will be disappointing news for you but would like to thank you for your interest in this position and wish you all the best for the future. Shared Services Connected Ltd – Delivering services in partnership with the Metropolitan Police Service Phone: 01633 632500 Email: Enquiries.PoliceJobs@police.sscl.com Met Recruitment Team Sun, Jun 23, 8:35 PM (15 hours ago) to me Vacancy: 17388 - Data Quality Management Lead Met Recruitment Team Sun, Jun 23, 8:40 PM (15 hours ago) to me Vacancy: 17306 - Lead Software Developer - Counter Terrorism Policing HQ Met Recruitment Team Sun, Jun 23, 8:40 PM (15 hours ago) to me Vacancy: 17260 - Business Change Lead - Change - Counter Terrorism Policing HQ Met Recruitment Team Sun, Jun 23, 8:45 PM (15 hours ago) Vacancy: 17404 - Senior Development Operations Engineer - Band M - Counter Terrorism Policing HQ Met Recruitment Team Sun, Jun 23, 8:50 PM (15 hours ago) to me Vacancy: 17412 - Grievance Assessor Met Recruitment Team Sun, Jun 23, 8:50 PM (15 hours ago) to me Vacancy: 17415 - Senior Server Engineer - Counter Terrorism Policing HQ Met Recruitment Team Sun, Jun 23, 8:55 PM (15 hours ago) to me Vacancy: 17236 - Forensic Examiner – Forensic Forms Unit (FFU) Met Recruitment Team Sun, Jun 23, 9:00 PM (15 hours ago) to me Vacancy: 17337 - Regional Support Officer ReplyForward Add to Google 35 peace report
1.Purpose :report meeting on duty academic - ob book incidence bokok safety society politic municipality permit authorisation building government political , .- safety first security exclavatir machine fence unauthorised ,road way , building road block give safety public checked meeting security government political ,EFF personal must building building site brickline safety control room reviews revisions draw architect vs engineering electrical vs plumb electrical must go out meeting shoot cement. - installation motor pump , security API ,USA Europe guidelines conflict equipment conflic archtech design to achieving , installation automatically ,vs safety ,CCTV fire extinguisher door worn bandu , - confluc the need architecture must building to component from USA ,no rejected guidelines to building those components safety building draw building science building component drawing and architecture plan to building . - conflic schedule safety task day roof , elevation counter building in progress work ,30day , milestone excelation safety , inspection labour safety public prevent is engineering . - report learner kekeletso didn't work with form submitted CVS student learners to talk . - received policy didn't work form . submitted busy to talk talk when the complaint assessment academic year -CVs labour relations inspector labour job piece CVS engineering inspector OSHA safety inspector OSHEA , contract , HR , M,S,NO, CVS back log irregularite pay , labour case , labour , labour CVS labour , labour CVS labour , labour CVS

PART- QUALIFICATION n/engineerin SKILLS PROGRAMME engineering SECTION B: QUALIFICATION DETAILS B1. Occupation and/or specialisation that this occupational qualification relates to: QUALIFICATION TYPE OCCUPATIONALSKILLS PROGRAMMETITLE OFO CODE(state if none related can be found) SPECIALISATION TITLE SETA CHAMBER SIC CODE 1. Please wearing 2. n engineerig electrical 3. 4. Link to: Occupations OFO: https://www.dhet.gov.za/Skills%20Development/Updated%20FINAL%20OFO%20VERSION%202021.xls Link to access SIC Codes: https://www.dhet.gov.za/SiteAssets/Publicati(on%20of%20New%20Sets%20Lan,dscape.pdf B2. Details of Qualification(s)/recorded Trades afforded when applicable: QUALIFICATION ID/RECORDED TRADE ID QUALIFICATION TITLE/RECORDED TRADE TITLE LEVEL CREDITS QUALITY PARTNER (QP) Engineering electrici Lev.5/n4 n Panel wiring Lev2 B3. Learnerships registered against the above stated qualification/trade: LEARNERSHIP REGISTRATION NUMBER LEARNERSHIP TITLE NQF LEVEL Engineering electrical N4/lev5 B4. Does the intended occupational qualification relate to relevant economic drivers? For each area marked yes, provide evidence Referencecurrent source, with page number, where need was identified Tick YES or NO. 4.1 Listed in the Economic Reconstruction and Recovery Plan (ERRP)? Yes yes No Reference 4.2 National Development Plan Yes yes No Reference 4.3 New Growth Path Yes No Reference 4.4 Industrial Policy Action Plan Yes yes No Reference 4.5 Economic drivers in Strategic Infrastructure Projects (SIPs) Yes yes No Reference 4.6 Reconfiguration and Reconstruction of N4-N6 part qualifications Yes yes No Reference 4.7 DHET Scarce Skills List (List of Occupations in High Demand) Yes yes No Reference 4.8 Legacy/Historically OQSF Qualifications Yes yes No Reference 4.9 Other priorities Yes yes No Reference B.5 Provide a rationalefor occupation/specialisation (i.e. describe and explain need, benefit, typical learners) ... B.6 Specify regulatory bodies, professional bodies, associations,labour or employer organisations and/or other stakeholders that are involved/interested in this occupation: .... SECTION C:APPLICANT DETAILS Complete the table QUALITY PARTNER DETAILS NAME OF QUALITY PARTNER ...st peace college NAME OF SUBNAME OF APPLICANT ... bshingombe tshitadi DESIGNATION OF APPLICANT ... EMAIL ADDRESS OF APPLICANT ... TELEPHONE NUMBER ... DATE ....01/06/2023 SECTION D: APPLICATION SUBMISSION Email completed and signed application form to: qualifications@qcto.org.za FINAL VERIFICATION REPORT TEMPLATE NB: This scoping report is to be compiled by the QP and is submitted to the QCTO within 10 working days after the Final VerificationMeeting. 1. QCTO approved application for which the Final Verification Meeting was conducted: OCCUPATION engineering OFO CODE en SPECIALISATION n 2. Final Verification Meeting details: DATE 11 VENUE 1 TIME n 3. Details of Qualification for which Final Verification is conducted: NO QUALIFICATION TYPE QUALIFICATION TITLE NQF LEVEL CREDITS 1. Trade theory electrical Trade electrical engineering N4/lev5 n 4. Details of Part-Qualification for which Final Verification is conducted: NO QUALIFICATION TYPE QUALIFICATION TITLE NQF LEVEL CREDITS 1. Trade theory /panel wiring Engineering n N5 n 2. 5. Details of Skills Programme for which Final Verification is conducted: NO QUALIFICATION TYPE QUALIFICATION TITLE NQF LEVEL CREDITS 1. Engineering electrical Engineeeeeeirn n N4/lev 5 n 2. Panel wiring electrica Trade theory Lev n 6. Analysis of stakeholders consultedforFinal Verification: NO CLASSIFICATION NUMBER OF PARTICIPANTS WHO WERE INVITED TO THE MEETING NUMBER OF PARTICIPANTS WHO ATTENDED THE MEETING 1. WORKPLACE PRACTITIONER 4 4 2. PROFESSIONAL BODY/NON-STATUTORY BODY 4 4 3. EMPLOYERS ASSOCIATION 4 4 4. EMPLOYEE ASSOCIATIONS LABOUR UNIONS 4 4 6. EDUCATION AND TRAINING PROVIDER (PRIVATE) 4 4 7. EDUCATION AND TRAINING PROVIDER (PUBLIC) 4 4 8. ASSESSMENT SPECIALIST (EXAMINER/ MODERATOR EXPERIENCE) 4 4 9. CURRICULUM DEVELOPMENT SPECIALIST 4 4 10. TEACHING AND LEARNING SPECIALIST 4 4 11. COUNCIL ON HIGHER EDUCATION REPRESENTATIVE 4 4 12. HIGHER EDUCATIONINSTITUTION REPRESENTATIVE 4 4 13. OTHER 4 4 14. TOTAL 56 56 NB: Attach Final Verification Meeting Attendance Register in the QCTO prescribed format 7. Details of Subject Matter Expert who will facilitate the development of Qualification/Part Qualifications/Skills Programme: NAME SURNAME EMAIL ADDRESS CELL NUMBER TELEPHONE NUMBER tshingombe tshitadi tshingombekb@gmail.com Comments ... 8. Quality partner declaration: I, ...(Name and Surname - Quality Partner Representative), declare that the information provided above is an accurate reflection of the proceedings of the scoping meeting as detailed in this report. Signed on this ...02 day of 6…20…23 at …jhb _____ learner engineeering electrical 2022/10/28 12:00:00 AM 2022/11/16 12:00:00 AM 4 no meeting rquiremnt Never been Employed Before Education Engineering electrical trade R 950 000.00 - R 1 100 000.00 Engineering electrical 2023/10/20 12:00:00 AM 2023/10/20 12:00:00 AM 6 Engineering electrical job close tendered _____ Follows us on The requested URL was rejected. Please consult with your administrator. Your support ID is: 9957715859926169674 • o Our Company Company Information Leadership Investors Sustainable Development CSI Media Room PAIA Eskom Heritage Photo Gallery Video Clips o About Electricity Electricity Technologies Eskom Power Generation Facts & Figures Visitor Centers MD0IS Fire Alerts o What we're doing Electricity Generation New Build Transmission New Build Plan Ancillary Services GCCA Report Supply Status Info Site For IPPs School Of Welding Eskom initiatives _____ o IDP Integrated Demand Management Energy Advice Eskom Solar Water Heating Programme Measurement Verification o Customer Care CS Online Tarrifs And Charges MYPD3 Customer Service Information Subscribe CS Mobile Customer Feedback Customer Care Video Clips IDM o Careers Vacancies o Tenders Eskom Purchasing Policies Tender Process Whats Out To Tender Supplier Registration Insurance Policies Procedures BBBEE Certificate Copyright © 2024 Eskom Holdings SOC Ltd Reg No 2002/15527/30. All rights reserved. | Terms of use Webmail | Media Info | Sustainability | Job Opportunities | Contact Us 1 Overview Support Support Cases Detail Case #11009436 Open Created date: 25 Jun 2024, 13:04 Contact: Tshingombe fiston Account: Tshingombe engineering (Pretoria, ZA) Resolving agent: Assignment in progress Request subject: hello dear can fnd Request details: hello dear can fnd Conversation feed 2 Attachments and 1 Comments Agent Customer Comment * Type your comment here. Upload File Upload a file with a size limit up to 30 MB. Drop file or browse good like i Posted by: Tshingombe fiston 25 Jun 2024, 13:06 Incident logged on 2024, supplie letter tendered.docx Posted by: Tshingombe fiston 25 Jun 2024, 13:06Size: 355 KB Incident logged on 2024, supplie letter tendered.docx Posted by: Tshingombe fiston 25 Jun 2024, 13:04Size: 355 KB • • •

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sasseta , mil STD , priority of identification information Assessment ,marking process,, -drawing engineering code gage code format size letter mil sabs number system , - design activity gage code drawing numb army tank automatics tank wareent number sabs ,size cage code scale ,unit , - pin number length contractor manufacture item not-change original,defense logistics battle explanation ,record accurate number number duplicate , responsabily Engineering transferring design from design to another ,sabs sasseta seta add cage original identity , maintain design activity activities b, manufacture,pin item meet ,tabulation assembly installation ,source control delineat ,, - design synthesis : sabs mersetа , Mil 8.2 .Dhet ,vs sasseta seta accreditation, Assessment. -mil STD , safety security training, mersetа required,gov gazette, Applicable ,: document , general engineering n studies electrical engineering,business studies, Government documents , specifications other government drawing engineering and Engineering science subject safe , order of priceden , definition commercial and government entities gage shelf , contains, design activity engineering electrical , documents ,, functionalite marking engineering electrical joint electronics type designation system engineering electrical subject n ,manufacture identification engineering n diploma , nati supply code for manufacture n engineering electrical trade mersetа ,, nomenclature,order of procedt, part identifying number pin engineering, procedure instruction manufacture number ,set select drawing general requirements, government names join electronic type design system nomenclature ,army nomenclature binspection stamp ,special characters contractor entity gage identify marker equipment, except to table ,unique item small item ,limited multiple item , reference design government reprocurement, details required,type number and design,electron tube ,electronic printed wiring board name plate , marking battery circuit, marking labalk ,high voly notice , radioactive matery sabs mersetа, ioning radiotion sabs , caution sabs , schematic wiring and cable sabs San IEC diagram , chassis identification, modification work numbers marksabs ,sensive electron device sabs IEC , sensive of marking ,general type number marking process ,wood sabs ,size identification, metal radius corners mounting sabs ,spectral glass sabs IEC , opacity sabs EIC ,permanency durability sabs EIC , note user dist ,marking for , air transportable , -2 ,introduction system managementand,process , required analyt, functionalite analyr, verification, system engineering process, system and control breaker review trade studies ,modelling and simulation metric risk management. Planning organising, system planning product and integrating system development, -3 system engineering. Electrical trade fundamental introduct , subject , application work experience, facility, facility ground system: -power distriy system sabs EIC to mil , communication system , bonding shielding and grounding relatship sabs eti. ,-mil grounding safety practice sabs , ligthning discharge fault protection noise sabs sans , summary of requirements, resistance required sabs San,resistance to earth sabs sans department defense SANDF communication electronics requirements, typical resistive environment effect,neasyof soil resistivity,one electrode , subsystem ground burier gride sabs,resistance properties ,simple isolated vertical ,fLt potential,, ligthning protection, phenomenon ligthning influence ,strike holder structure less protection flash ,conductor impedance effect,inductor impeteaeth resistance ,basic fault protection fault protect .. Vs Saqa engineering electrical learning,advany maintence low voltage fault find , batteries,low voltage inspect service maintence battery charger , designing a lone renewal energy systems, design solar pump trouble shoot PLC,completed certificate competence , demonstrate understanding process communication system,control electrical network a control centre,spray wash energised high voltage network, fault find repaired DC power machine,operate on high voltage network ,select up generator for renewable energy ,fault find repaired electric system winder installalg ,construction Area ,transformer ,electrical power ,industrial electronic - industrial electronic ,low voltat installation high voltage installation ,electrical machine ,transformer,electrical power system, transformer cable,cable accessories,machine,maintenance,cable switch gear ,,fault find system conveyor install ,mining fault,construction dismert,overhead,special area chemical , interpretation State, maintence busbar and chamber association equipment traction substation, 3 kV DC traction regeneration traction inspection record ,breaker ,, --Vs ncv vocational isat frame activity construction electric . Learner Practical theory electric principal ,introduct .. dhet , diplomat engineering electrical,, electrotech, militaire over , defense award challenge Assessment meet defense,, Electrotech , select power of electrical appliances to achieve set temperature,carry calculation ,convert mechanical energy to electrical energy. , determined the amount energy installation in termine kwh ,, determine cost installation AC ,cost incud , apply vasic magnetic theory, determine magnetic flux density for magnetic, interaction between magnetic field, AC lines of magnetic force ,flux MMF, interactive between current carrying Maxwell,non magnetic relative MMF ,motor left ,theory faults of switching,, determine energy stored,calculate length, principle, ,,compare diffentperiodi. Time form RMS value a stage,value maxitprak additional, explain singlt and three phase system comparison, voltage number calcutlind phase , demonstrate calcul diagram the operationel circuit, explain apply purely ,,explain effect having poorfactoe capacitor, AC penalliecable size equipmt size current demand,running of induction motor on full load synchronouse static delta star , description transformer determine efficient no load components ,transfotcore ,type AC air breather conservation buchils ,core lamination , emergency stop button warning station , state installation procedt consider all safety precautions applicable ,open circuit test service ,operate set , consider all safety ground conditions state ventilation noise define refueling access, in AC commutation this practical ,type testing test sylls correct installed, RMS value , and correctly connected,the sets correct motor electric ,state earth , connection from non service generator set switch gear equipmt AC check load cable and interconnected,checj the earth operate non service,identify generator,applyloD in accordance with safe working check and adjust generator set running ,mainy voltage ,shut down generator, carry out after use check in accordance completed recomat, maintence non service generator set maintain principal procedure,apply all safety equipment,install non service distribution system,install distribution cables,install distribution units feeder pillar mcv,rcz ,install operate and test ligthning and power distribution system lapds, statement design,ensure correct placement fixumaterial task, ensure task is installed to line,ensure task requirements adherapply electrical standard,ensure compliance with and enforce all regulatoriig, evaluation thee executive m e electrician task , implementation safe work ,, Selected appropriate switch gear ,determiner capacity switch gear install diagram,manufacture local distrtpoint , manufacture data protection,shirt circuit, diversity, maxi demand,connected load ,selected type wire identify system ,determine adequate capacity basic , protect Dhet ,vs saqa labour mine , -Purpose:for plant engineering examination the theoretical section subject theory practical, Electrical mechanical, application identification, fire protection risk control , principle, ,,explain operate electrical machine, -electrical technology, -electrical engineering, -electrical trade theory ,electrical circuit theory, production of rotation magnetic, character synchronouse three phase inductmoyor ,semi conductor ,electric lamp and illumination,electric power transmission,short circuit condition ,circuit breaker ,cable insulator overhead, power economic of power supply,maximum demand ,fault discrimination systemetical fault ,illumination explosinon equipment,, - applied thermodynamics : air and gas compressor and blower,air motor refrigeration and property air condit,psycho entry ,steam generator ancillary ,heater balancing , balancing condensatir steam gas combustion heater transfer fuel transfer , simplestress, strain thin pressure vesell tension pression circular, close coiled shear force vending , temped ,strain second moment bendut shear foundation, fatigue mechanic,property,testing material twisting shaft property, reinforced Crete, conveyor wind plant ,elevator traction ,motion , displacement and acceleration,static dynamic ,belt and chain ,brake dynamic, toihead gear train lubrufian clutch cranes bearinghydratransmissiin flow friction losses,mechanist transmission pipe line ,Pelton wheel,flow in kaudnes, hydraulic machine ,mecanic measure air flow,dusting property, Commission safety maintenance condition. - planing and commission of project maintence schema fire detection system accident investigation, testing and repair electric motor phasing and synchronous AC motor operating tandem fault discrimination electrical,hydrastatic drivers classic sequence general, dust suppression,emission control flameproof,boiler inspection repair inspection vrsei unders pressure, maintence fault diagnosis compression refrigerator and air conditioning ventilation system steam pipes water treatment ,steam pipe installation ,pipe work ,10.2 DHET, cycs scotvec ncv saqa basseta. Outcome: -0.2.1PUPOSE:-Learner engineering, -mechanical engineering, -electrical engineering, -fundamental research,step task Learner lesson plan lecture plan mapping investigation analyse input out put subject module assessment f=ma+mg, v=u+at, p=wx.t, Fu= ft, heat = m.a .cxt , equation algebraic linearing exponent , Ax + by=o,,ax.ax b.b y=,. -fa.a +F.b.b , fa.a+FB.b=c.c(x+a) exp .n Subject Engineering electrical applied ---mathematics ,(1+x) exp n=1,--+ Engineering science g= ma + mg , v=u+at, p=w.t , Fu= f/t, heat = m a.x .c t2-tf, Engineering draw .. orthographic orthopedagogic educare education,care function. - industrial electronics, -v= r.i , e= v+ r.i. theorem equation loop , Trade theory v= r.i, e= v+ r.i , // term 1,2,3,90 days, ///mark score point 100 mark,///inspect policy stolen excy//// recalculate error developm theory inventory motion low formula pedagogie fundamental engineering phenomenon low motion , Exchange policy investigation resolve framey regulatority engineering compliance crime vehicle ass license number low, step collationing crime information legal paray, crime source information identifying crime described crime analyse crime ,crime no protect over load identity module subject completed source and need ,design analyse feedback criminals trade theory safety . -engineering safety engineering completed design creation components safety management prevention low warning protection device incidey hazay accly ,sabs sasseta seta industry low motion F= ma+mg// theory, inspect service power ,Equation law ,Equation ,Ohm ,Kirchoff ,Electrical ,Electronic ,Mechanical ,Physics ,Engineering ,Mathematics ,Science ,Grade 10 ,Grade 11 ,Grade 12 ,engineering regulatory compliance ,mechanical engineering engineering electrical , - compare low test methode two motion procedure case f= ma+mg, complain f=ma+mg, - test trade vs test dhet nated class question theory test , Test score mark subject, mathematics , engineering science, industrial elecy, electronical ,total value test engineering y// evidence low given equation low low rules limited Lim n (1+1/n) exp n ,, Lim -b +- b+4ac/# a ,,,Dy/DX= 4x+3/2x+2. Intro,,, F=g.ma.mb/br#, p=rt stregy module elast fat= FB,// vc ,vr,rR,r3,r3 Kirchoff nortion , //// evidence Poe s resonning comparison test value test improper integral , test converge diverge limited More ,less Rieman ,we not also define the integral as the limit as Delta x for to o of the genersj limit goes to infiny how does bound it self ln (2+ x) in this case delta x still equals 5 / n but x I = an integi calculator give resuy,compare force low motion gravity attract,compare test two frequency,compare two load transmission value //// evidence low quotient evidence judgement entry low exhibition limited fract of low rule , value add ,task requirements logic low value,operator task compare two value force operator mass gravitational limited sum,evidence low lineare limited factorisation,compare two task , , Engineering council. - visa trade qualificay answer passport, investigation planning system undergo, mathematics, requirements test trade module limited derivation function ,integray function master number rewui factorisation, equation word ,, -engineering science, engineering physics required test physic: module statics kinematics mass force, gravitational heater power motion optique , strength material ,hydray -.electro required , AC machine components resistor semie conduct insulator ,diode rectifier half electronics , E , trade test , faculty required , basic advance , fire protection risk control , principle, ,,explain operate electrical machine, -electrical technology, -electrical engineering, -electrical trade theory ,electrical circuit theory, production of objectives,sans portable tools , clause council , Framework, equipment ,metal work, sabs 767 earth leakage protect , wound transformer secondary unearth sabs 743 ,high frequency generator ,, switch marked clearly user to maintain in a serviceable conditions , chief inspector performance prescrib testing manufacture of electrical machinery, qualifications experience,earning 10.3. Purpose: dhet nationt trade n engineering electrical,, fundamental engineering level and License trade engineering electrical professional council ... engineering electrical science engineering, mechanical engineering engineering electrical , - compare low test methode two motion Hopkinson , indentify shunt machine or more system learner low evidence low , v = applied voltage output power GI =1.V1 generator ,input power of motor M = (I2) , I1+I2, An ,n = efficient of machine output power,zm*= n (I2+I2).v= input power of G,out power of G = n x input , n,= √I1/I+2, armature ,total loss generation, à losses irons for generation , nr (I1+I2)v- Pm//(I1+I2)V,, E1=V-Ia.Ra,,E1/E2=$.N2/$1, Serie motor two motor load ,,E a ,E b, . mechanical couple, motion angulair velocity transitaire permanent current power lineare two system , grouped generation pilote ,two transformation load or more system , resistance,, enclosed area learner Learner motion engineering trade - phasor diagram total system complex wave transmi generator, fundamental results , maximum amplitude equation ration , learner, - e1= Em.sin 2w.t, .e2= k2.Em.sin 2.wt,,.e3=k3.Em.sin . 3 wt, , e= kn.Em.sin.wt,,.value wave algebraic sum fundamental and harmonic,,e=e2+e2+e3+…+en =Em (sinwt+k2.sin2wt+k3.sin3 wt , k sin wt , basic , steel type inspection engineering

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assessment engineering. Permit engineering allowed engineering time table work engineering 4subject statement engineering case studies for projection cost trademarks was outcome technology. Misconceptions faculty retention subject psychometric vocational career guidelines study engineering projects trade plant engineering analyze design investigation system .geography electrical magnetism .thermodynamics system .thermal CCTV , study material, building standards .experimental plant city power how plant was working Tendered cost law table n1, 2, 3,4,5,6 NQF level subject in system continue beam .engineering fundamental system . Circular system study must undergoing investigation principle low power. .consumer power factor trade correction power module student more and company operational required Gov manufacture relate sassed seta merest accreditation company trade to supply trade test making trading component equipment to sharp fit to step operate chisel mark . Engineering trade in the plants Design system 2.1.4.6.2..government system national fund financial implications in system exam to more go sector . .go development social worker union fund to student go visited. Closed sector required minimum score Inventory 12..4.6.3. Metering module trade theory electrique. Electrotech.electrotechnology resembles instrument measures. Information management system. Framework communication skill, mathematique engineering science outcome engineering electric .factor Instrument ammpermeter voltmeter wattmeter cos.analogy.digital metering. Transco metering low voltage .high voltage. City power Eskom authentic district municipality job customer house building substation. Generation transmission. Transformation cabling sector basic home electric metering power geyser cost Month consumer kWh indicator meter and coat price inventory Customer registration number existing installation and customer metering number custom power meter square consumer planning wiring design custom: Registered customer training sale air time and metering installation single phase and tree phase installation industrial installation. Customer Municipality lighting road ways street municipality designing civil engineering power lighting switch ways system. Trade light to implement bulb trading data system. 2.1.4.6.5. Metering implementation time table experimental generation transmission level and panel skill experimental in the system house home development to the plant training city power Eskom. Practice electrique engineering research academic switch ways design db box outlets socket award qualifications time table investigation switch ways circuit breaker motor investigation analyze design power factor to be re implantation in company city power Eskom commission entrepreneurs go implement to be working in system. Policy system academic slbs sans trade theory licensed System information analysis engineering fundamental system process... Communication system engineering electrical license term trade to be implemented in city power was installed. 3.1.4.6.1. Permit allowed minimum job career student permit security in BTs training allocation minim job Social work classification job government to allowed case study student trade exam to be experimental in the plant city power Eskom and government institutes labor department Visa code trade booking exam f'd time table days and time 4subject Permit legislation framework regulatory mandatory to more experience pass port visa student f'd asylum to to work and studies tourism in the plant 3.1.4.2. Questions factory ask/anew student was not allowed to trade in the plant and to be training in the plant for dangerous .labor insurance compensation and development social student have for more information was poor in the sector theory to gate more information and to overcome power city member employee training .labor union .police and army .police electrique .electrique .engineering .engineering .engineering

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electric. Typical: major components in the power systems list system voltage , transformation impedance , interrupting rating and fault current just the basic .item -Drawing should be kept. - main control room of a -switching operation buy identifying feeders and the load they serve, - system voltage frequency phase and normal operating position line diagram, - for more detailed view of an electrical distribution system,three line diagram is used phase polyphase A c , system drawings, connection. - diagrame show distribution component such bus rise ,bus plug ,panel,board , transformer ,small , branch circuit, drawing alarm, system, -schematic diagram Purpose: man schematic diagram emphasis circuit elements function relate components, series or parallel Found ,indicator ,diode ,logic gate, fuses contact ,switch ,every circuit, -circuit breaker control schematic: wiring diagram,terminal for wiring,terminal strip ,relay ,load detector relay wiring diagram . -main purpose of a wiring diagram electrical circuit arrange, schematic diagram, - wiring diagram ,part , device terminal strip, appropriate number,letter,colore design,terminal and connection between the components are clearly,build repair , -Block diagram: reference input filter sum ,controleur actuator process plant, distribution,sensor, - arguably ,basic type of electrical drawings block,diagram, components of complex systems,form of block,interconnected,block provide a conceptual,idea a process is completed, electrical, Symbol. Represent schema -logic Diagram: current gate and logic gate clock - breaker failiure relay logic diagram . Modern protective relays utilisation diagram to represent complex circuit process .electrical. - schedules. A build Electronics use soldering,and desoldering . system..welding iron ,solder ,silver,or copper lead , desoldering,plug ,outlet ,cleaning disconnectorb,connector.printer circuit fabric film microship process. Silicon.plastic molding.. Fit recess .fit wiring .process.. Control - instrument method selector design metering process Appointment of service provider supply St peace college and city power delivery component lab workshop part time table subject.. -introduction golbak stage St peace college . -Scopes of project: projection requiredsed supplies to purchase and deliver total ,. -Special condition component Subject module metering 4,purpise documents. Budgets 5: peace college city power time table fee bursary,office graduation internership fund student.gov -Quotation value tax (vat) project : ,time frame project is to commence access bidder Firm price subject , name of the company quotation close Appliance and compagny subject item description of good part number quantity Evaluation criterion (80/20). -request for quotation number -limitation to quote supply and delivery Item/ description of good //quart///price/// bid price RSA 001 /engineering electrical practice workshop projectye engineering open view lab test lab and workshop practical saqa .dhet training exam papper .seta . assessment police //// amount estimation fee Total include .8modul x 24subject x3month 200 projection years aman's test experimental technology.training integrity one project .. -deliveri period Specifications requested for project: Item, part numbe r, performance b, size,model Inlet . Outlet .2.12 - : T=t/lamb.In 2... Unity design - : Metallic layer fabric oxyde metallic alluminuim material R=¶.l/w... PCO=vcoxl...Vco (iMax/2)...n (po/p1)x1000;;; vccmax -vcc/vcc Required : engineering science physic chemical.. electrical..power machine E=T1-T2/T1=100% . , VP/P=VRT/m=v..sq Efficiency=w/Q=1-T2/T1×100% P1.V2/T2=P2.V2/T2 W=W=P1.V1.lnV2/v2.. SF=4,187lntf/273.. T2/T1=(P/P1) exp r-1/r W=P1.V1-P2.V2/r-1. PV=M1.R.T Q1=m1.C..\T Q=m.l.v U=m.C.V(T2-T1).. (V2/V1) exp r-1=T1/T2, ¥=CP/CV... R=cp-cv W=m.R.t.ln (P1/P2) P1.V1. exp r=P2.V2.v2 r W= m.R.ln V1/v2.(T2-T2) f exp 1= fv/V-v f exp 3=f(v+v)/v V=\.f r C/2.l V=-¶p/p=-¶.R.Tlm V=-l'u V2/¥1-V2/¥2. f=(v+Vo/v+v2) r=1/2l .\p/m E=F/Q=Q/4.π.e dr.. Electricity. W=Q.V.....E=m.g/q.....Ek=w=vq Q=C.V.....E=h.f.....F=q.E.....E=1/2.C.v exp.....V= m.gr/Q.....t=R.c.....S=w/F.....=Q./4.π>Eor V=k.Qr/...C = Er.6o.A/d.....F=k.q1.q2/r sq Ek=Q.v.....e= vd.....t/c=1/C1+1/c2.....v=f W=1/2.Q.v.....m=EQ=(V/r).Q....C=k.E-k/d.....q=F/mm=Fmm/SM.....Ep=mgr=Fmm/SM.....Ep=mgr=Fmm/SM.....Ep=mgr

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items H: rate of quality products 98%, I: ideal cycle time :0,5 Min / item J: actual cycle time =0,8 Min F: actually processing time =jxG=0,8×4000. T: availability=E/c x100=4000/460×100=87% M: operational rate = I/j×100=0,5/0,800×100=50% -Overall equipment effectiveness=T×L×H×100=0,87×0,50×0,98×100=42,8 -equipement.: 1Loading time ,operating time ,net operating time ,29/qc bz bag loss- equipment failure ,Set and adjustment, idlan reiner stopp,reduce speed, Cyclelnation of overall equipment -1availability= loadtime - downtimex100/ load time. - 2availability=460 min- 60 Minv100/460=87% 3performance theoretically cycle time=process/time operating Performance efficiency=0,5 Min ×400 unit/400 ×.100 =50 Rate of quality = processed /amount defective/processed . Rate of quality products=400 units -8 unit /400 .. Overall equipment= availability ×performance Efficiency ×role of quality.. 50..Reproduced..dti labour exam..and labour appliance time table availability,break time table exam operationel time table management system information.st peace college performance.. competency engineering implementation.. development social infrastructure in gov energy's department.. Actually process irregularite final.regularity compensaylabour .to skill city power visited ... system.. Reproduced: engineering St peace College, ensuring maintenance care components discovery,idee improvement tips self no coping constructive bridge design ,defey force militaire operation , Policing invesly resolve of crime frame work regulatory collating information indentify crime , engineering, -Defense militaire operationel force -mil STD 13231, content ,paragraph application general ,standard ,other government , publication ,order of precedence , definition , commercial entity gage , commercial off the shelf cot product, containers,decalmane,design activity documents functional marking engineering, -joint electronics type designation system industrial St peace college .industrial electronics safety factor low defender land. -Manufacture identification, nato supply code for manufacturer nscm , nomenclature,order of precedence, part number identify number safety electrical trade theory safety manufacture sabs sans health outcom . Procurement instrument indentification identification number,set selected item ,drawing ,sequence marking unit ,safety and police fi emework low system manufacturers St peace college ,General requirided general gov ernment name and type number ,drawing number design system .St peace college CV ,planning marks manufacturing control system offensive training marks manufacture ,army ,Army ,nomenclature system identification number :I'd permit St peace ,inspection contractor Gove gagr identification b, Limited used multiple use special item identification college , use of unity pack bag, reference design government bdesignAtor, reprocurement,electronics tubes electrical part tubes, name plate data for article,special requirements for marking of container, identification of set article of or , indentification,marking articlevbatterie warning high notice radio active,ion ionising radiation,technical literature caution:safety electrique OSHA sabs IEC commission St peace college system manager, schematic wiring and cable diagram , chassis identification modification work order number, sensitive electronics device,location of marking ,general marking process: ,marking on surface size and form of character label,material process radius of careers ,mounting mountain special Sass opacity permanency Nd durability,facsimile,issue marking for air transportable reprocurement perman y legilo,subject . 50.3 system engineering management, system engineering process ,sabs sans St peace time table outcome career engineering safety electrical engineering generation transmission.assessment require , requirided process and analyse allocation,design synthesis, verification, system engineering process -system analyskse and control ,workbreak drain Struct, technical review trouble model and simulation .metrics .risk management risk management Planning organising,product improvement strategy organisation and integrating system development, contractual , -system engineering fundamental introduction,: general , application ,engineering Nd power,sabs sans St peace college ,Engineering council of south africa,standard ,certificate,registration ,professional engineer,candidate engineer,technician,St peace college city ,power Sa generation ,transmission ,distribution low voltage,medium voltage,high voltage,substation low voltage,medium voltage,high voltage,substation ,switchgear ,control gear ,protection ,relay ,circuit breaker ,fuse ,busbar ,cable ,conductor ,overhead line ,underground cable ,transformer ,reactor ,capacitor ,rectifier ,inverter ,converter ,motor ,generator ,uninterruptible power supply ,battery ,lightning discharge fault protection noise reduction summary of requirements,resistance to earth communication lightning requirded typical resistivity summary,soil effect effect, measurements of soil resistivity, measure technical ,one electrode method four terminal ,earth electrode , system,general ground rods buried gride plate s metal frames,water incidental metal, resistance properties simple isolated electrode ,, Transient impedance , electrode ,fall of potential metal extension ,test paint - lighting phenomen influence of structure height ,strike like hood attractive less than 1000,flash parameter mechanical thermal conductor impedance inductor capacity couple earth , -fault protection :power systems fault ground circuit interrupt, Conductor direct current resistance, alternating current impedance skin effect AC reactance proximity effect, resistance property vs impedance property , effect geometry,standee cables , rectangular Conductor tubular Conductor, structural , - signal substem : networks configuration..signed point ground lower multi ground higher frequency plane Defense mil STD 1285D, Fsc5920,, circuit breaker FSC 5939 switch thermostatic switch rotary shall sequence counter,open frame construction color passed molding,Google switch ,printer wiring stddata regardless,data is applied directly surface information described, intend ,use, issued of DoD marking for shipment,serial transportable item representment,permanency legibility,name and action plate ,mil Qpl system reference government ,non government value wired identified gate drawing format size letter and drawing number,Outputphysycal architecture product element and software code decision database,input function architecture,enabler ipts decision database automated tools models, -control constraining gfd cot reable system ,concept substem choice organisation procesudure, Reusable SW system concept subsystem choice , Activities: allocated function and constraints to system element, synthesis system element alternative, assessor technology , alternative, definition physical, definition system products wbs development life cycle technical integral system select preferred concept P.E=q.v q.is charge moved voltage rate doffence other change. P=I.V....E=P.T.,Talk= resistivity .l/a , H= Δc m.(T1-T2).. -Pl.=v.i.cos.. IL=p/v.l.cos unresolved transmit 1009.10 m w..at 10.kv.resistance of 100km... Wath current need to transmit Requirededt: metering system decimal relay rotational test ,sequence line,cut off ,direct switch register ,in the group in which the calling division starter search for pilot switch .a time device, switch finder respond pilot ,vehicle test connector ,signal controller send impulse stepping ,interconnector ,div ision .... Alternator . Loading effect heater current 50.require regime sinusoidal Transfor mer Group 1 ,two induce clockwise radio .. Group 1, hour indice 0,-4-6 Group 2,hour indices 0-10-2 Group 3,1-3- Group 4-2-11 Connection couple YY. M= n2/n2. Y.d. M=N2./N1. √3 Dy.,m=n2. √3/2.N1.. U1.=4,44.n1.sfb.. N1=u1/4,44×sfb.. Loss ion .copper : Uco.Ico.cos≠ ZS=m.U1/I2... Model: fresnel diagram .. existing Constanx kapp E=V+Ux+UR 11(t)=IMAX.cos(wt) I2(t)=IMAX .cos(wt-2π/3) I3.(t)=IMAX.xos (wt-4π/3) H(M,t)=3/2.Hmax cos (φ-wt) Reproduced: -Job evaluation form :St peace college engineering electrical and electronic power visited training days ocr diagram inspection ,sans 1285,ocr ,sans 1285-2377, numeration block,ocr,ocr proper, dealing, concentration working , mandatory, physical, - -Job classification: career engineering electrical saqa .dhet maq ..and training city development . category Close tendered Grade a,.b,.c.d.e. Point possible up to 100.,/ Award mark Saqa .close labour returned explanatory..city power . inovation career award .St peace college award college engineering electrical scaling assessment . Close tendered trade sta award invented .award dhet diplomat Point award 102. Point have awarded skill 80 point responsibility 25, mental effort 25.working consider.merite -Determining the wage : Job classes and average A 60,B65 ,C 70 ,D,80;E80,C85, I sitiu good task . Task exer measure responsible judgement application of technical legal account statistics engineering. Abscent .labour overall... -Customer data analysis telemarketing: point model customer loyalty advertising distribution quality information quality image bus,customer satisfaction loyalty b. Distributor performance Distribution vservice ranking ,overall performance brankbith rankingbdifference .. custom ER returned St peace college time table .an city power metering - Item report financial mode product .RK 1mB memory's Specifications Display ooerator Printer print meter Memory back Power consumption operating dimension,AC 120v, 99/cdgy data Label printy Power requirements Power consumption Operating tem.plotyser size.product ... -Personal call plan Telephone call plan matrix customer number metering code Level factor call plan .-error association observations .level call plan analyse market . Winner trading plan.net profit brumber win pay out number .profli loss .. Bulletin trade test job returned posted job postpuned..mail inyer. Bulletin award certificate returned back sale close .introduction statement matter .introduction examination .cost St peace college Power report returned .investigation .examination development skill design plan .introduction Portofolio .return St peace build exipremental learn do practical in generating power.station career .science student knowledge obtain engineering electrical in installation day month log activities career inovation.humain claim gas investigation because explroinsbon bun city power border investigation St peace college plant operations city power discovery work.and definition professional.. That conduct research student St peace field career generation metering in city power.to ensure city power operationel plant part and maintence components bcity power understand science b to develop circuit calcul must go..to planing city power road going ..nature idee time table.. revolution in city power accessories to devices critical eayes observe custome in city power creation idee.implenting time in city power cited plant and author industrial society and force defense and police security. -defense military engineering.police development systems information in city power inovation skills mean creative new idea access student in training be researchers.. - : Required:land tumpin filament, typical lamp incasecent tungsten filament, tungsten halogen, mercury vapour, fluorence tube,metal handle,high pressure sodium, mercury vapour same, -typical application general purpose Tash lighting large area commercial. - efficiency luminescent 13-30,40,to,100,lumen lift hour,dimmer,life hour,dimmer,life hour,dimmer,life

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system worked primarily school junior .ethic deontological generality legislation school ruling resourcereality legislation school and principal admnistrator act importance in saqa qualifications citysen to frequently industrial. -Duty of chief college and department management schools, . political public education state evaluation,control priority norm posterior.level organisation type model office bureaucracy. _flexibility of circulum, -caracteristic of students and training St peace college to training caracteristic job company city power,to give a good operationel results proteion goal target day visit, -management leadership measure political principal objective professionalism in job training caracteristic direction ordering collegial.counselling director -. Management intermediate division organique function authority administration directives, personnel and pedagogy training, evaluation government, judiciary low . legislation low schools,functionnel authority teach assure orientation coordination pedagogy -.situation curriculum flexible examen national Central administrative contract d 'autonomie protein project study chief of .changement of authority power of teachers society civil offer influence democratic in circulum assessment.and training examinator \ Engineering electrical power ka Research college engineering career joint gov compagny department. Implementation time table Framework College to company electrical engineering low Name :TSHINGOMBEKB, Cvs title: government and education job engineering college Job duty: Section 2 Tshingombe Tshitadi engineering electrical engineering electrical implementation time table to job time company experimental trade tshingombefiston@gmail.com Phone Number Education Study Program st peace college 10/2020 - Present , jhb r Courses engineering electrical Work Experience Title/Position city power training /st peace college training 02/2023 - Present , rsa engineering electrical visited work place training experimental Achievements/Tasks award degree diploma saqa/ award panel wiring electrical Contact 1.content: engineering electrical career project officer outcome legislation government engineering gov.city municipality engineering theory and practical experience 1.Researcher requirement job study 1.1. Research content: Research implementation time table means government institutes visited Visited labor department of Visited energy department city power Council trade . council engineering education department, mask, city power years career ,originator career,join women company education workshop lab engineering theoretical practical city power and energy department . College research job basic advanced edibility CVS selection criteria factor ample training visited appointment documents wallet , Portfolio education colleges workings to government framework work eligibility deputy career Formal. -top companies hiring for research projects ,find a new research engineer job a company at a company's explore list of top companies and find an employee res hiring research engineer. -location global company state 100 industrial. -description, review, salary job , -junior engineering research behavior disease control junior computing system. -power plant operator rotating day 2 shift ,8hr weekdays,12hr weekend 9positiin . -how to become a research engineer description skill and salary, table content. -what is research engineer. -Research engineer vs. research analyze, -research engineering roles and responsibilities. -research engineering skills. Research engineer in various including defense Communication electronics Energy manufacturing. -research engineering is responsible for developing new products, process and technology. -innovative companies, organization and institutions. -career as research engineer might be rage. -research technologies for employer collecting external data analyzing performing test Transport medical core hardware software development and production. -research engineering vs. research analyst. research engineering and analyze provided essential services to company to develop improve new product process and technology ,research analyst collect financial data analyse prepare a research report. -research engineer requirements, characteristic and many more. -mathematics skill needed to successful in their . understanding of mechanical principle to meet objective and requirement of project. -examine and test product, -examine and test process . -core research engineering skill, -research evaluation data machine alfo -research engineering roles and responsibilities. -research team idea reality interest research and development create new technology. 2.dutee of are search engineering vary depending types of positions held generally. Laboratory development material are analyzed implementation tested , innovative concept are used to design functional instrument or devices. -writing research proposal and maintaining contact with sponsor. -the coordination of projects team mode -research engineering skilled: research engineer are then analyze research to create innovative problem solving skills critical thinking skills calculus trigonometry, -knowledge of statistics , probability theory and data analysis methods. -research engineering salary. The average salary. -qualification: -3what advanced engineering: Overview, job, salary, skill. -3.1.Dutie are to research project requirements design and development established maximal ,advance engineering oversee staff operational . Place work general duties are to research project . Knowledge of products designed manufactured asset. -position advance engineering advance entrant as senior an . Advanced engineering had scope of knowledge. Engineering average 45 hourly salary. -Advanced engineering jobs: advanced engineering career paths a long your career taking responsibility leadership role using our career map, career goals, the career progression , senior engineer ,progress to a title senior. -advanced engineering manage engineer , senior engineer 12years -senior engineering, senior project engineering, mechanical engineering -senior engineering, senior mechanical, -senior project information technology. Principal engineering. Engineering library. -Engineering role project engineer engineering is responsible for planning and implementation of a project or design. -manufacturer engineering, senior engineering vs industrial or design cost. Number of advanced, -principal engineering vs senior engineer roles and different ensuring teams .collaratively research design , analyse,and inspiration structure client requirements, -specifie projects field experts between. -principal engineering is an engineering professional many year of experience ,oversee project staff working ,role principal leadership c project time budget. -Do planning engineering department in task like research and design . -determining department goals creating implementation plans. -providing expert advice to other engineering. - creating and managing engineering budget , - negotiate contract vendor , implementation process. -senior engineering earn title handling several projects simultaneously performance task of engineering. -ensure teams apply concept to -Generating report and writing project proposal. Presenting design and research to customer. -advising staff with process recommandation . -negotiating project management -junior vs senior vs staff engineering career progression is a topic. -junior engineering level engineering focus mostly. Demonstrating the coding capability, Level understand code base and drive assignment requested to improve it migration framework, adding test design well organisations. -Task disciplines designing, -senior engineering.bea able breakers down and complete a project of a large scope with high level productivity. -practiced the problem solving skill needed to perform task. -ability to work with a technical mindset. -be able ship high quality code. -be able to implement unit test part of system. -be able to design and demonstrate. - engineering grades , ranking job title public sector level of seniority. - engineering schedule gov, Engineering ranking.engineer in training. Engineering intern assistant engineer , junior engineer staff engineering engineering instructor . -responsible : for grade from basic data collection working on small projects, adapting metho to finish work , . level6 employee beginning need guidance aspects job , senior employee complex. -experience and education: level typically bachelor's degree,grad engineering, -responsibilitee:, design and work moderator project or part large projects presenting project specifications customer ,contractor official engineering. -experience and education: 4 .electrical engineering : do designing and building electrical equipment advance technology outcomes includes electrical skill improving products. -creating electrical engineering meat, mathematics abet , emphasize,your skill focus . Resume structuon. Experience over 10years power station transmission and distribution technically -skill specifical: Circuit design and java programming contributing to developing a large hydroelectric installation an experienced team manage circuit , -an experience team manage circuit . Skill technical autocad circuit design electrical measurements. -workplace skill communication critical leadership innovations. 4.research non vocational career fundamental institute high education university ,pure low on electrical engineering systems fault based on low voltage distribution.power supply. Analyse network is it safe operationel level affect economic social benefits of power supply. -emergin issue in extremely low frequency electric and magnetic field .when low 0-100hZ are considered distribution risk assessment cancer workplace. Level effect off on cellular . Voltage amplitude current duration. -examine and test product, -examine and test process . -core research engineering skill, -research evaluation data machine alfo -research engineering roles and responsibilities. -research team idea reality interest research and development create new technology. 2.dutee of are search engineering vary depending types of positions held generally. Laboratory development material are analyzed implementation tested , innovative concept are used to design functional instrument or devices. -writing research proposal and maintaining contact with sponsor. -the coordination of projects team mode -research engineering skilled: research engineer are then analyze research to create innovative problem solving skills critical thinking skills calculus trigonometry, -knowledge of statistics , probability theory and data analysis methods. -research engineering salary. The average salary. -qualification: -3what advanced engineering: Overview, job, salary, skill. -3.1.Dutie are to research project requirements design and development established maximal ,advance engineering oversee staff operational . Place work general duties are to research project . Knowledge of products designed manufactured asset. -position advance engineering advance entrant as senior an . Advanced engineering had scope of knowledge. Engineering average 45 hourly salary. -Advanced engineering jobs: advanced engineering career paths a long your career taking responsibility leadership role using our career map, career goals, the career progression , senior engineer ,progress to a title senior. -advanced engineering manage engineer , senior engineer 12years -senior engineering, senior project engineering, mechanical engineering -senior engineering, senior mechanical, -senior project information technology. Principal engineering. Engineering library. -Engineering role project engineer engineering is responsible for planning and implementation of a project or design. -manufacturer engineering, senior engineering vs industrial or design cost. Number of advanced, -principal engineering vs senior engineer roles and different ensuring teams .collaratively research design , analyse,and inspiration structure client requirements, -specifie projects field experts between. -principal engineering is an engineering professional many year of experience ,oversee project staff working ,role principal leadership c project time budget. -Do planning engineering department in task like research and design . -determining department goals creating implementation plans. -providing expert advice to other engineering. - creating and managing engineering budget , - negotiate contract vendor , implementation process. -senior engineering earn title handling several projects simultaneously performance task of engineering. -ensure teams apply concept to -Generating report and writing project proposal. 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Engineering intern assistant engineer , junior engineer staff engineering engineering instructor . -responsible : for grade from basic data collection working on small projects, adapting metho to finish work , . level6 employee beginning need guidance aspects job , senior employee complex. -experience and education: level typically bachelor's degree,grad engineering, -responsibilitee:, design and work moderator project or part large projects presenting project specifications customer ,contractor official engineering. -experience and education: 4 .electrical engineering : do designing and building electrical equipment advance technology outcomes includes electrical skill improving products. -creating electrical engineering meat, mathematics abet , emphasize,your skill focus . Resume structuon. Experience over 10years power station transmission and distribution technically -skill specifical: Circuit design and java programming contributing to developing a large hydroelectric installation an experienced team manage circuit , -an experience team manage circuit . Skill technical autocad circuit design electrical measurements. -workplace skill communication critical leadership innovations. 4.research non vocational career fundamental institute high education university ,pure low on electrical engineering systems fault based on low voltage distribution.power supply. Analyse network is it safe operationel level affect economic social benefits of power supply. -emergin issue in extremely low frequency electric and magnetic field .when low 0-100hZ are considered distribution risk assessment cancer workplace. Level effect off on cellular . 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The average salary. -qualification: -3what advanced engineering: Overview, job, salary, skill. -3.1.Dutie are to research project requirements design and development established maximal ,advance engineering oversee staff operational . Place work general duties are to research project . Knowledge of products designed manufactured asset. -position advance engineering advance entrant as senior an . Advanced engineering had scope of knowledge. Engineering average 45 hourly salary. -Advanced engineering jobs: advanced engineering career paths a long your career taking responsibility leadership role using our career map, career goals, the career progression , senior engineer ,progress to a title senior. -advanced engineering manage engineer , senior engineer 12years

compteur ,15,237kwh,. 12458kwh .. 12.2. Measure des harmoniques Dan's Les reseaux electrique, procedure pour l analyse harmoniques du resaux . -action correctives ponctuelle,action preventivea a long term , -Quel appareil pour measure CES indicateur . -Quel rang d'haanormique procedure pour l analyse ,harmoniques du reseaux ,measure des harmoniques reelle Sur site industrial . -Mi fieb pr ormal d fin d'avoir une Vue globale Sur l 'Stat(s) reseaux, Carbogramme du reseaux, -en Vue de measure corective a lire termine l'origine perturbation solution requise pour l elimiure, -port verified la validite d 'une solutions a la suite de modification Dan's le reseau de distribution pour verifier la reduction - Les indicateur harmoniques peut etre measure expert present Sur la site pour periode temp limiter par instrument de measure installed fonction pandant UN temp period au dispositive determiner. -action correctives: lorsque pertubatin sont observe harmoniques sont suspect de measure ,courant et tension sont effective aux niveaux debla soure d'alimentation heux de Barre du tgbr Sur chaque depart tableux general ,pour de result fonctionnement installatt etat batteries condensateur Nombre de garden , - determiner l'eventuel declassement necessaire des equipment. - determiner le calibre de routes Les system de protection et filtre necessait d emission harmoniques maximal admisst Action preventivea a longu term. - permenebt measure ,measure certain Nombre de point, different installation Sur period situation. -fluctuatiin source d 'alimentation. -variation Dan's Les fonctionnement ,ajout de Nouveau equipment, -des appareillage measure installed aux reseaux de distribution permetre des appareils des measure installed permanance derectent Suive . -poye une Evacuation global de l 'etat du reseaux analyse preventive, -la location de material de measure l 'appwl expert ,la connexit et deconnexion,d 'eqyipement de measure pour l 'evaluatio. Global de l etat du reseaux, l analyse Sur le tableau general,base tension oar l 'appareil arrive et ou appareilmeasure equipe chaque depart , - pour Les action corrective IL EST possible ,determine le condition foncty ay moment de l incendie, -desser une carte reseaux evaluation mise ouvre. -quel appareil pour measure CES indicateur a Les appareil measure dourniese des information valeur instance harmoniques, sont conxue selon norm CEI 6100-7 ,CEM,. technique d essaies,this angle tensions indicateur long term 10minutwperiod 1 semain,between harmoniques maximal norm en 50160 caracterica valeur . -harmonique impained non multiple,rang,ampli relative, -harmonique impaired multiple de 3,amplitude relative UN , -harmonique pairs rang amplitude relative , -instrunwnt portable ocilloscop,indication distortion courant ,analyser numerical Fourier alfo I - U ,10 sys ,50hz 12 period 69h -les cout des pete du transformateur court annual du pertes . -les lertes annuel d UN transformateur eat evaluee for Wperte=(P₀+Pk*k.k)*8760.. Wperte Montana des pertes annuelle en kWh . -P₀: pertes a video en kW , Parameter ,specified Dan's . La caracteristique du transformateur ..Pk perte en charge en kW ,parameter specifies envdans le caracteristique du transformateur. -k: facteur de charge ponderee Sur l 'anne ,,,8769 : Nombre d' heures de fonctionnementlm. Dan's l 'annee (24/24,365jl.) - decharge ponderation Sur un journe Sur site industrial , Facteur de charge ,pondered, - Sur UN jour (1440 minute) de charge Formulae √sum t-1440,t=o..k.k.indice k xt .. √(0,3)exp2×150/t+0,65 exp 3×[240+(0,85)(0,85)×330+(0,5)(0,5)×90+(0,85)(0,85)×510+(0,3)(0,3)x120)/1440 -chargr pondered journaliere eat Alor 0,724. -chargr pondered annual vaut √ j365 sum j=1 k.x.j /365.. CTA pertes = C× W pert X (1+t)exp n-1/t×(t+)exp - court total acrualiae de Perte. C: evaluation du court Mope. Pw kWh par an , W Peete , perte annuelle I: taux d ' actualization, n : durede vie esperesy trans global dea transformateur evaluation economic l achat d UN transfo ,actualisation Cour global long sure vie achat -C=DP-AxPo+Ok. ...pp :court d' achat du transfo, A court perte a video ,Po total perte a video (€/w). Bc Cout de perte due charge exp €/w Ok: perte du charge gaewntie . A=Ckwh*8760(1+)exp n. /(1+)exp n. -1- Ccout de fonctionnement, Cmaintenance annuelment for the transformateur, Cassurance annuel, Ck: cout de fonctionnement Dan's , Kfacteur de couverture 1,2 a 1,4 pour UN transformateur standard, 1,2 pour UN transformateur installe UE -27 de fonctionnement Dan's , Kmaintenance 1,2 a 1,5 pour UN transformateur standard, 1,5 pour UN transformateur installe UE -27 de fonctionnement Dan's , Kfacteur de couverture 1,2 pour UN transformateur standard, 1,2 pour UN transformateur installe UE -27 de fonctionnement Dan's , Kassurance 1,2 pour UN transformateur standard, 1,2 pour UN transformateur installe UE -27 de fonctionnement Dan's , Ti,% -donne, Type du transformateur 1000kvA , v -charge moyenne : 65% (24/24) -cos π moyen de la charge :0,90. - Suree de vie economique 29ams , - Cour de l ' energy : 0,06 euro 12.required: NF_50464-1 -1pertes a video ,perte did 14000,perte coc 1100, perte Bob,perte Aop. -2 perte du charge a la charge ,perte DoD,perte coc,perte perte, 3.cout indicator ref DoD ,perte DoD ,perte perte ,perte A,a 4.perte annuelle kW, 5.rendement perte.98,95,pertecoc 99,16,98, 99,39 6.Perte a vide ,12264,96368234,6745, 7.perte due la charge kWh ,48114,38862,33319, 8. Total kWh , 9.xout annuel de perte,perte Vue perte charge,, 14..Billant matiere ,,concentrateur ,indicateur . cuivre revenue, rejected 100% plumb .metallurgie luxiviation.. geotechnical 1 to 15.probabilite d UN evenement EST Nombre d issues favorable devrale par le nom re d issue total . P(A)=1-P(Aₙ),,P(AouB)=P(A)+P(B).. .. 15.1 requireded: Usinage fabrication une mecanique qui necessite une interrupter et fusible Vue que l usine achete CES componasa ts electrique en Grande quantite.,des interrupter achete soient defectuese ingenieure qui travaille recolt dinnwr,Sur la defUkan e de CES appareillage don't certaines sont resume, -defectuex interupteur 6, fusible .total -no. Defectue interupteur 182..fusible ,total, -total interupteur ,et fusible 208. -probalite q UN interupter soit defectueux -su is probabiltw q UN fusible soit defectuex De 0,6825,combinetwo fusible so t bon ,Sikes interupteur et UN fusible defoue ay hasard ,probabilite xtwoaire in interupteur our d UN fusible qui be fonctionnement pas defectueux ,divider nom re des interrupter Nombre interrupter defectuex ,6-182=188, P(N) =6/188=3/94=0,0319 si la probabiltw q UN fusible soit defectuex de 9,0625 ..soit avenement f qu UN interrupter soit defectuex 1-0.0625=0,936.. 15.1.required: need to minimise dan adjustment energies, -determination of secondary control power requirements and minute reserve, - the secondary adjustment power and minute reserve to reserve are dimensioned. - jointly by the delivery date quote, the dimension IS no longer effective quarterly for the quarterly individual but - System history imbalances Central Se failures are excluded. - probability statistics of failure of the different type of center with a power of 100mw, - classification of dinners between time and date but Ferrier day, details of the sizing procedure, are available in the dynamic sizing time slot of the day, - sizing of fcr needs The power of the frequency constraint reserve maintained by the network manager get all the way, - total internet system quantity, In Continental Europe's interconnected systems result from the disturbance of +-3000Mw or from probalistic sizing taking into account the diffet influence factor must guarantee that the 12.1 electricity high voltage line ..production ,Total estimated TWh,,nuclear estimated %, hydraulic in line d way, other renewed, thermal flannel % non-renewable, thermal flammable, - total consumable loss, final, per capita TWh, manage agriculture, industries, service %,. Transport services, trade %, foreign trade import TWh, export twt, -Energy reading meters and calculating consumption, management of distribution networks, - read the indexes on my electricity or gas meter. -practical sheet, find estimate 1209 cubic meter. Figure 3,555kWh, If My electric meter has two Full hour. Off-peak hour, relevea shifires indicator, -Measurement of harmonic and power quality, Electricity find the procedure for the harmonic analysis of the network , - one-time corrective action, long-term preventive action, - Which device to measure CES indicator, -What rank of hanarmonic procedure for the analysis, harmonics of the network, measurement of the harmonics carried out On industrial site. -As a preventive measure in order to have an overall view of the state of the network. Network Mapper, -en View of Measure at end of end corrective at end determines the origin of the disturbance solution required to eliminate it, -port verified the validity of a solution following modification in the distribution network to verify the reduction - The harmonic indicators can be measured by an expert present on the site for a temp period limited by a measuring instrument installed function during a temp period on the device to determine. - corrective action: when disturbances are observed, harmonics are suspected of measurement, current and voltage are effective at the levels of the power source hey of the bar of the tgbr On each departure general table, for the result of operation installatt state capacitor batteries Number of garden, - determine any necessary downgrading of equipment. -determine the caliber of roads The protection system and filter required maximum allowable harmonic emission Long-term preventive action. - permenebt measure, measure certain Number of points, different installation On period situation. - fluctuatiin power source. - variation Dan's Operation, addition of New equipment, -measure devices installed in distribution networks allow devices to measure installed permanance derectent Follow . - poye a global Evacuation of the state of the networks preventive analysis, - rental of measurement equipment for the appwl expert, -connection and disconnection, measurement equipment for the purpose, Cour global state of the network, analysis On the general panel, low -cost preventive action the network arrives at the device arrives at the network, - the preventive action IT IS possible to determine the fonctionnement condition at the time of the fire, -draw an evaluation network card opened. -which device to measure CES indicator a,The measuring device provides information on instance harmonic vaen rales, are designed according to norm IEC 6100-7..CEM.. test technique,this angle voltage indicator long term 10minutwperiod 1 week,voltage harmonics maximum norm in 50160 characterized value. - non-multiple impaired harmonic, rank, relative amp, - harmonic impaired multiple of 3, relative amplitude UN, -harmonic even rank relative amplitude, - portable ocilloscop instrument, current distortion indication, numerical analysis Fourier alfo I - U, 10 sys, 50hz 12 period 69h - the cost of transformer losses short annual losses. - the annual letters of a processor are evaluated for Wloss=(P₀+Pk*k.k)*8760.. Wloss Montana of annual losses in kWh. -P₀: video losses in kW, Parameter, specified Dan's. The characteristic of the transformer ..Pk load loss in kW 16.requirement : function functions.. Psychology's b, function job analysis function job analysis is the examing job requirements ,and assigning the right conditions, qualifications no rwing condctu no arm ,lifting , -functional job analysis is method used hr (i/o) psychologie expectation of their specifical position private . -project work job roles that requires intermediate math skill essential job roles call ,job role training state math skill ,job role training state math skill ,job role internship ,job role training ,job role training ,job role training

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graduate chief post generation size industrial , development outcome machine industrial problem industrial maintenance support, manufacture support technical science actual system machine computer system news technology robot science energies need career outcome integration human and material support to resolve demand factor in humans size outcome tendered bid and material resource capacity product integration. to resolve team timeframe operational system month daily diary 2.Purpose: Ask factor job career outcome transition phase learner phase exhibition phase teach beginning, intermediate,seignor get college junior cadet minim functions graduate chief post generation size industrial , development outcome machine industrial problem industrial maintenance support, manufacture support technical science actual system machine computer system news technology robot science energies need career outcome integration human and material support to resolve demand factor in humans size outcome tendered bid and material resource capacity product integration. to resolve team timeframe operational system month daily diary , <research time frame : Project ,importance time frame allocation time table research engineering and science electrical implementation break time load shedding time industrial loss gain resource human material energetic ,time table adaptation system team synchronization, asynchronous system regulation time table periodic alternative or direction energy production system cost metering production human time frame to resolve movement frequency response of team step task project in the structure, resonance learner ,metering learner teacher, resonance learner and system robot actually must be synchronized s 3.Method : METHOD: MATERIAL AND EQUIPMENT: methology specific guidelines assessment formative Summative rebruc,tools assessment learner and teacher ,time table allocation file student file school..workers file employment database file training job and emploie job , human. Material stationery information Manuel and automatically system machine laptop computer ,panel system ,design,execise book log book, journal account book, drawing sheet book,office documents wallet book,bank card register office database employment book, need, Engineering electrical material,panel projection permit office workplace register government industrial register social,policy defense security register logistics support, police power. Electrical generation transmission,distribution metering measure tools ,robot it system Port USB , Panel, equipment scaling,office study. 4.Result: mass technology and mining , wath is natechnology , wath are the danger of mining,how is nanotechnology being used to make safe , activity,2,3 .. -nanotechnology and energyb,where does ours energy come from,non renewable and renewable energy source ,how can nanotechnology help to build better solar panel , activities,1,2,3:.. .nanometre.. - the are used nano technology science very small ,object ,,,. .. ..discy, .. - apparatus , investigation, write an investigation Questions, write a hypotese for your investigation, procedure for the investigation ..make sure that your hypotheses give a clear idea of step you need , - connect your equipment so that you have build circuit shown diagram, beginning by including as completed the circuit observe brightness of the lightbub, now,observe the brightness of the lightbub with this shorter length,, torch ,wire pencil lead,wire,, now decrease the length pencil lead that has been included in your circuit once , observe the bright of the lightbub with this shorter length of pencil lead ,record your observations ,analyse your data .Assess the brightness current and resistance do you notice, - observation, write a conclusion, Write a clear conclusion to your investigate.. Activity: Describe the mining danger ,, -activity : in group of 5 ,6 learner design and draw a poster showing how nanotechnology is being used to build gas sensors for mines, - make your poster as clear and colourful as , . - you teach will assess your using criteria. - poster is colour and creative , 2 marks,poster shows original idea 2 marks, poster is clearly presented , 2 marks,information on poster is informative. 2 .5 Conclusion : Engineering it... discovery Computer, training , development and support services to existing or prospective , club house safe creative space to learner age ngrap, machine input goes same thing happened rules ,input predict output determine the input, input , metaphor by setting large cardbox machine mystery rules ,teacher student can create rules teacher created spread sheet machine,,,, -Synchronous system asynchronous effect ,phase transition Asynchron 3 space 90,120 , wave ,, -understand the gradient function slope slip tangent point derivative ,vector function Probly calcul gradient loss function,,gradient scalar function ,have two function partial derivatives, -Maintenance during operation abnormal yes, breakdown yes, yes scheduling, order , maintence, database yes,yes period, mid term maintence scheduled, monthly equint inspection ,, Implementation leader Education problem counter mesirw , trainer, equipment specific inspection ,yes inspection current and resistance do you notice, - observation, write a clear conclusion to your investigate.. Activity: Describe the mining danger ,, -activity : in group of 5 ,6 learner design and draw a poster showing how nanotechnology is being used to build gas sensors for mines, - make your poster as clear and colourful as , . - you teach will assess your using criteria. - poster is colour and creative , 2 marks,poster shows original idea 2 marks, poster is clearly presented , 2 marks,information on poster is informative. 2 marks, group work learner were included 2marks ,total 10 marks. 2.how to build yourself a bright technical future. - considering a technical career,, - let s get down to work , - how do I pay for .. Technical and artisanal not so low skilled job fact skilled, Revolution age material age skill.. Myth and facts about technical careers . Myth choosing a technical course will lead a low paying job , career regards status compare,gate stuck on your career ,technical career are not for women ,is dirth work,there is not room for creativity in technical career Fact : a well qualified technicians or artisan is high demand and will earn good salary , need RSA job technical low, women do justas these career, workplace need clean , Engineering challenge are practical problem and many need creation rthar where qualifiry,, are you fascinated by how something,piece make it up together,do you prefer to make things instead of reading aboutg ides ,doubyou enjoy solving puzzles and problem,does working in team make happy ,would you like to run your business one day a career as artical engineering ,technicia , mechanic , engineering technologist , at see what you can do ,what you can make ,what you can design,, activity : in group of 5 ,6 learner design and draw a poster showing how nanotechnology is being used to build gas sensors for mines, - make your poster as clear and colourful as , . - you teach will assess your using criteria. - poster is colour and creative , 2 marks,poster shows original idea 2 marks, poster is clearly presented , 2 marks,information on poster is informative. 2 marks, group work learner were included 2marks ,total 10 marks. 2.how to build yourself a bright technical future. - considering a technical career,, - let s get down to work , - how do I pay for .. Technical and artisanal not so low skilled job fact skilled, Revolution age material age skill.. Myth and facts about technical careers . Myth choosing a technical course will lead a low paying job , career regards status compare,gate stuck on your career ,technical career are not for women ,is dirth work,there is not room for creativity in technical career Fact : a well qualified technicians or artisan is high demand and will earn good salary , need RSA job technical low, women do justas these career, workplace need clean , Engineering challenge are practical problem and many need creation rthar where qualifiry,, are you fascinated by how something,piece make it up together,do you prefer to make things instead of reading aboutg ides ,doubyou enjoy solving puzzles and problem,does working in team make happy ,would you like to run your business one day a career as artical engineering ,technicia , mechanic , engineering technologist , at see what you can do ,what you can make ,what you can design,, Activity Describe the mining danger ,, -activity : in group of 5 ,6 learner design and draw a poster showing how nanotechnology is being used to build gas sensors for mines, - make your poster as clear and colourful as , . - you teach will assess your using criteria. - poster is colour and creative , 2 marks,poster shows original idea 2 marks, poster is clearly presented , 2 marks,information on poster is informative. 2 marks, group work learner were included 2marks ,total 10 marks. 2.how to build yourself a bright technical future. - considering a technical career,, - let s get down to work , - how do I pay for .. 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Activity:

voltage grille. Lf: get –170–250v Voltage. 45 , 32m Current. 62 2,4 ma - coefficient amplificator. 15 ohm - resistor internal 0,2 , 4,6 MV Capacity Capacity grille ...CG ---14,7 of Capacity and grilled cage <0,8Q. Value limited Peek voltage anode vap max 7,kV Voltage anode Va max 300v. Voltage of grill. 3000. Cathode current v max 30 w, 180 ma,8,5 + Telemetry video output pendle power flip flop, , - emettor , af amplificator emettor - collector emettor - emettor - Voltage amplificator display , heating, , (fit)=VRF cos (wi)+(fit)=t-)v1 -QR(t)=tVRF cos (wi)+(fit)=t-)v1 -QR(t)=tVRF cos (wi)+(fit)=t-)v1 - conversion in case we Gcre en ean mixage voice l et Q , Voltage , , quadrature, Insulation mean level power -typica using single side , telecommunication street distribution for new urban residential estate Electricity peddel ,started conduit , road way , Legend ADSL signal spliten telephone , exchange, ADSL convey frequency , asdl modem yes customer premise., - typical grand cooper tweas Network telephone exchange, , Cathode current v max 30 w, 180 ma,8,5 + Telemetry video output pendle power flip flop, , - emettor , af amplificator emettor - collector emettor - emettor - Voltage amplificator display , heating, , (fit)=VRF cos (wi)+(fit)=t-)v1 -QR(t)=tVRF cos (wi)+(fit)=t-)v1 - conversion in case we Gcre en ean mixage voice l et Q , Voltage , , quadrature, Insulation mean level power -typica using single side , telecommunication street distribution for new urban residential estate Electricity pedded ,started conduit , road way , Legend ADSL signal spliten telephone , exchange, ADSL convey frequency , asdl modem yes customer premise., - typical grand cooper tweas Network telephone exchange, , for , typical telephone and data services, ,Famut TV , bender PC, study PC, kitch PC ,wall ,,ethernal Legend : modulator socket CCO,modulator coaxial socket , coaxial plug Polyphase emettor receptor frequency intermediate heterodyne class,modulation phase phase (t)= cos (wt+$0) Sin a (t)=o,then m (t)=o module phase shift signal module ,m(t) = sum ,, -canal of transmission GSM cellular antena internal view area 577us signal terminal, Wave electromagnetic tic plane impedance caracteree area,E/H=377 ohm ,, schema btsbsc,msc network fixe ,, Numeration of voice Fibre cider , module, filter decoder ,input output band 300hz - 3,4 kh, 13 bit cadence ,, Input line I1,2,3, cabling - circuit command selector , meter decimal Relais , rotational test , duplicate line off,cut line , Decimak control ,direct A, switch register in the register in the group the calling division aearel variety, Switch line ,switch final connecter ,signal control send impulsion ,interconnector , pilot switch start , div ,,div,,, - multivaria data analyse telemarketing,ont ,do - sumit(x1,x2,x3) exp 2, structures equation model customer loyalty adversity board award , quality imagine customer satisfaction, x=, loyalty= b1 brand customer quality =C 1 advertising + c2 brand award + image price customer satisfaction + image price, -distribtor performance Distribution/ service ranking X1/ overall performance ranking y1// ranking differente d1=y1-y2// diffential sequence,data analyse , investigation of association , - Winer trading plan bet Net profit= number of wine bet x premise pay out motion number of lossi. .bet premium, y profit or loss,=# number of winning vet ,k payout motii, -model : I Model: ml 06NP, ML6,c - capacity : 6kg -15-30 Resolution: 1g+2g-5 Weight range ,- 3 kg ,7,5-6 -train display ,zero net - sub display: zero net ,vf d LCD graphic , Disparue dwe , ply memory/ ml on Print / rypt , available size label ,Manuel Max : 90009,pl, width - label printy , interface,power requirements ,power consumption, operating tem plotter size ,mm ,product model - report financial Option model product 1 m b memory , Specifications display ,operator ,5,2 LCD , 2x 16 pop up ,20 lines Memory back up , data up vendum lithium ,power consumption , AC 120 v ,operating 9A, standards 0,2 A , operating AC 239 ,operating dimension - system development: Sample Gant chart showing progress system development activities by putting bar , Project planning documentau, page) - system ware inventory system modifucatt system ware house , - system schedule activities completed activity,analyse - activity ,1/2/3/4/5/6/8/9/12/13/14 -required definju -for project team - definition and objectiv -R3 interview whereatatff Organisation required Vo review Design - review programm - specific report - specific screen - specific documents - soexitxe Documents change - management review - implentation - code programxchange - build test file - build test - test produdtin file - revision - product file Revise - procedure - production file - Maintenance - Software Maintenance - Hardware Maintenance - Maintenance Saint new - procedure software - software - software (software subsidies) Maintenance - software development system architecture system investigation use engineering computer case tools automate ,task required system high degree , package focused association stage v, arafw case tools selected - development for orientation program Frequency (y,x ...) 1/6/15/29 Head trace x /0/1/2/3/(3/5) Pourcentage - Devices/-3/&/2/ Purpose: technical PC vs technology PC support , - Technical PC electrical electronics PC Open lab ,mechanical electromechanic mecatronic system disc , buildings construction PC architecture PC Art PC hierachie vertical horizontal process word , excell algorithm Fundamental PC , -fabric fundamental process system Fabric circuit resistance , R: material, R=resistivity x\lA , I =w,,R= resistivity /,/y.w=, R3= resistivity/,, -metalic late fabric , semiconductor film metal oxyd silicon Fuk autonom career , Sio2, ,,input R1/R2 ,, DDP/Nikel, charged ,,,dischet batteries radio -Pbo2+2H2so4+Pb=PbSo4+2H20+kb.bs0 Turned. 1/2rrfc=2rr.f.lresonanance, L.fo..fox=x.l=796 khz select ,Copa ,, -if filter modulation signal, mixer yes ,local oscilator yes ,, -Am yes , 1mv, first r.f yes ampli, second ampli yea 50 MV,, detector yes , AF yes ,power out yes ,5V, 10 w, Dielectric: microwave , wireless communication technology yes ,master oscillator yes, -master oscillator yes, multi yea ,power yes ,antene yes ,, Parabolic joy advance , D= Pmax/PAV,, Scat = 174.69@DM,, G= k(m.D.f)/v,),impedt ,Z = (R..R+Xc+x),,,-Xc=1/2pi.f.C ,,,

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**install energy schema of operationel Plan thermal power : generate electrickal energy by converty chemical, hydraulic power wind ,geothermal -boiler turbine power combine cycle / spp solar power plan is on engineering structure verting radiation ponek ,Vacuum tower type ,/wind power Serie connected osgir coak - electrical measure: -Volmetre instri use measure analogic principal electromechanic,AC DC pulse selected, -ammeter device for current , - ohnneter device , Multiple measure functionalite analogic Dmm, Clamp meter device operation based 10kv,, Electricitt meter device measure electric energy install ,2,5,0.5: - mechanical energy : transformer static device convert AC ,expansion installer ,transform ,convert , Motor electrical energy operator shaft.-generstor convert mechanical energy from AC power solar - ground system electrical engineering DC ,isolation ,n neutyj, potential - Protection and automation device:circuit breaker,rcd,rcbo,sod,voltage monitor, magnetic,fuse, - socket repair/ installation of build // installation the surface mounted socket ///switch installation /Conche or brick, 1)make a Chanel for cable router installat junction,2 fill the recession labell,fill the remaining,drywall marking drill hide back connect, // Fix the base to the wall cable into the base , connect fix the sock install,/// Make the Chanel for cable mounted installation the junction with alabase mirror install fill remayb ,, -over voltage: I2 and I3 sum voltage u1+U2=389,P1+P2, /IP code. IEC en 60528/ / time current character time (1,13In /// tools work wide socket -Schem electronics circuit Switch (1and ,2 button,switch (3), pass through switch ,two key pass , socket ,dimer ,motion sensor ,impulse relay motor connection,electricity - electricity cost calculator,device power used , daily use time ,price for kWh cost per hour month days week _____ Cpd ..basic electrical instrument cone 11=V2÷|ztotal|< - teta I2=V2÷ztotaj< (-120°-teta) I3=V3÷Ztotak<(120°-teta) V1.2=v1-v2=(VLN<0°)-(VLN<120°) V2.3=V2-V3=(VLN<120°)-VLN<120°) =.\3.VLn< -90°=-\3.V phase V2 V3.1=V3-V1=(VLN<120°)-(VLN<0° =V3=.Vln<(30°-teta)-(Vln<o I1.2=V.1.2+Z<(30°-reta), I3=V2.3=zA<(89-o), I3.1°V<3+Z.a I.3.ß=v.3+ZA<150. I1=U_,I1.2-&@.2<129,v3.I2.phaae 3+39°= Advanced system diagram on line Design draw breaker type - v-max-max R=Z= (x.x+R.R+1, X=x+R, Fol load no load loses ,phase fault,I3,phase I3phaseE=X, ILG,, I=XS=I+x+1=x+1+x=3=>,, 1=RS=I+R1+I+R2+I+R3=3 X's=x+3,, xs=Rsa=R= gen ,x=R, symetrical b Voltage system power ,Q=P2tan= veta Cpd, theory exponential, Task lab sign domestic and industrial Engineering lab electrical workshop. Power system: - electrical shop tools on precautions practical is discipline study design - application equipment systeme - solid bar copper wire Awg, 10tp49, Normal diameter 2,6to 0,76,cross section 5,39. -assignment load calculation. Application appliance / unity //power rating ///rating ////daily usage /energy consumption. Fridge tvfan. -lab electrical standard wire size..18aw to 1, Assessment wath is gauge of wire used exercise b.. C=<1+36.lin ./_____ Engineering studies practice 240 ,month n diploma NQF Applie saqa to iat Practical purpose lsat,scope mark off basic engineering,topic operate and monitoring grinder machine Produced simple Sub task , activities time frame Manufacture size,time ,marks Resource requie. National Where appropriate material undertaking . Labels. cpd ,gov body insurance applie to applied trade to trade Qualifications framework equivenlent Assessment frame. National diploma engineering.credit accreditation,policy criteria minimum maximum ,, Equivenlent trade license: to trade license translate ..award equivalent Divide job ,divide task ,divide operational equivenlent Phase preliminary phase final ,semi final Time competition ,cycle recycle permenat limited continuity function hand book -Material strength test material -Scale ,module word Interpretation drawing scale drawing interpretation, building Geodesie 1/100, 1/10, projection reduce size mass rules relate rules re projection planer scape Scater ,flow shoot Cpd : body qualifications framework Statement of work experience Log book , instruction programme national , book entry competence evidence candidate Assessment Learner credit exhibition Experience qualifications Cpd ,Nqf level 5 cad cam ,Nqf level 6 cad cam ,Nqf level 7 cad cam ,Nqf level 8 cad cam ,Nqf level =3 qualifications equivenlente Frame job years: Framework handbook . quotation intellectuel. Credit entry 360:=credit 180=2 credit awardc,percentage evaluation 50=100=2. Level Studies engineering. -Work where appropriate a applying lubrificT correct assembly ,to assembly in accordance with specific,standard operate: -where appropriate applying packing and or sealing material in accordance with specifications operate procedure : -inspecting and checking the final assembly for conformance to specification.1th,2,th -where apprit returning the final assembly to use :1th,2th,3th,4th, -diagnose and repairs analogie equipment and components date sign .look for evidence confirm skill .: -Diagnose and repair and skill : -Obtaining and following relevant circuit diagrams Manuel specific schematic: maintenance ,: -locating reading recording and diagnostic buil in fault .: - obtaining error code interpretation documents running test functionnning and recording fault and equipmentb built test .: -Checking electronics equipment sub assemblies: -Component connection and termination for conformance to specific . - removing and replacing component : -recording results of test understaking on electronics equipment: -Isolating electronics assembly from the power .: -adjust g turning and calibrating electronic equipment sub assembly.: Returning to service and testing to specification the repaired electronic equipment sub assembly. - using language and literacy skills to provide brief report record result of test, Reproduction fault symptom and verify fault using appropriate test. -Retiring repairs,maintain service,look for evidence skill : -Look for evidence relevant circuit diagrams manual maintenance supplier.: - maintenance error code information documents running test function and fault and equipment status indicated built in test checking electronics components .: - interpret qty Check ordering electronics components and .: - interpret qty Check ordering electronics components and .: - interpret qty Check ordering electronics components and

flicked uo and down cintinously create a repeating distrurbance similar to shape of a sine .. - calcie wave lengtq frequency decrease pitch adod wave speed propertie speed source 50Hz wave lengtq 600m , y = 50×600=3000m/s.. Make label wave caracteris3.wave front a ligh ray plane wave - explain amplitude intensity wave depend it depend on it energy wave is proportional to square of amplitude 100.. Explain constructive decrustruction wave s constructive interference superposition where twi ind 1+1=xrigtq deconstruction superposition - - polarization ligtq is transwave sure wave polarization only occur to transvers wave of both ref to orientations.. - calculate refraction solution. tan(θ)=n2÷n2=60÷39=2..labelled refractural polariser rare medium deruim refraction. -calculate polarize ligtq filtered in labelled .. l=lo×cos.o $= .4 cos .cos 60= - explain wave reflection and refraction plan labelle angle incide ..angle of reflection incoming rf .. - explain low swil a formulae ..n1÷n2=sin θ2÷sibf1....normal angle of incidencl ur angle of refraction .refractli ray .. change direction wave transmit . □□□□□□□□□■□□□□□□□□

module week term allocation .phase transition outcome level career: elementary, intermediary, senior. Current -Conductor .semi -conductor switch key career learning: logic binaries code Module subject average career guidance: -Module career (sum "a"+"b"+"c") ;{sum "d"+"e"+"f"};{"g"+"h"+"i"};. - Task career step operate logic input output module learning sum. Module phase elementary, phase subject , Modulation scaling block career input ,output phase -Phase A,phaseB,phaseC,phaseD,phaseE, PhaseF,phaseG,phase h,phase I, -Activities:key learner ---------- Module: light resistor. Induction learner bulb : ---------- Module :rectifier redreseur phase angle ,diode operator phase sum career 5v logic 1,0r logic 0 volt Diode code encode display : Resistor: Module : phase career amplificator career gain .module transistor, % good average ---------- Module disc triac thyristor integrator circuit . Display subject . % good ---------- ---------- .line linearise Control logic analysis asservissemnt:lineare band : ----------+---+ Loop input output level grade: sum compare career: equivlenlent job input output: dividers job analyze function job task. Switch. Binary .task: modulation course subject entry criteria job selected key (phase a. Subject electrical) statement goal tech industry, psychotic electrical drawing project, method measure instrument. Electrical machine, electricity industries, mechanical workshop lab, language. Actuality electrical grade bulletin service: .education technologies total posting job output internet ship level grade 12 (and) /logic mathematics informatique ms do's window ms work windows, outcome certified statement award , attestation test motoring initiation special diesel essential vehicle, statement , telecommunication, pedagogue technical subject prep. Math physic drawing technical technologies mechanic electrical logic,rwiten sleek expression civism, electrotech , psycho pedagogie,didactic special ,intro psychopedagogie, orientation professional, electromechanic machine elect thermodyn chemical metalurgi statistics, ---------- Task phase :Ccma seta council labour , outcom -security Task phase:Engineering saqa n diploma subject engineering n diploma interpretation log : assessment -panel electrical wiring Subject statement outcome: course module mathematics, engineering science,trade theory Electrical , engineering drawings, electronics electrotech. National trade diploma , industrial electronics trade , average, assessment politic , career : Graduate programme: Alison , library, module :, Ccma labour security officer,policy intelligence Records ---------- -modulation 3month 90 days allocation credit 360: term . Outcom career transmission generation Graduate: post senior Task: faculty course total computing -guidence outcom generation: engineering senior :engineering transmission dispatch custom +Dev op information ITC mathematics data science network path+special research motor +trainer training seniors educator technic ,job post subject , generalist A1,2, -sum a,b,c=. ,sum ,d, e,f=. sum= g,h,i: Asservissemnt synchronisation phase level equivelenlent level grade,phase Angela 3month linear non linear scale synchronise , equivenlent trade, professional - task module reader Modulation ,activity -Research operationel:method research career implementation career join venture subject course tendered minimum close contractor quotation compagny key learners step A+B+C Module practical phase oscillator local signal A B .command network services -display register key .plate .display line pin address.vertical map, horizontal map AX=100000000000,AY=10000000000, Az=10000000000, , base synch Amplificator operationel Ax,Ay,Az Resolve variance ,covariance equation linear ax+by+c=0, ,ax'+by'+c...ax+by+cz=0.. Dimensionnement algorithm,scale -Research operationel -lecture reading module activities career outcom disc task call recall career month term asservissemnt lineare detector convert base binairy:decimal disc detection Ax=100000000000,recall accumulation register key Ax,A,yAz,key to flip flop amplificator lecture career move file read lecture captor analyser task .tap recording memory heater accumulation career. Research map,car, assessment work orientation job dur ,hygiene security ,sensor research intelligence ,artificial gene ,ship ,Transfer career research intelligence duty ,salaire job labour intelligence duty ,salaire job opportunity scaling coordination,n ordination axes x ,y,z, Cartesian projection find job map transition 2. Referral librarie casebook photocopy project DISCOVERY CAREER ; -JOB DISCOVERY LIBRARIE; BOOK JOB INVENTORY JOBCAREER CAREER -LEARNER DISCOVERY CAREER: JOB TOPIC CASE BOOK COMPAGNY -FACILITATOR DISCOVERY CAREER: JOB TOPIC CASE BOOK COMPAGNY AGREEMENT -LEARNER NAME:---------- -FACILITATOR:---------- NAME: ---------- ;---------- -MODERATOR NAME:---------- ---------- -ASSESSOR NAME: ---------- ---------- INSTITUTION NAME:---------- ---------- HR:RESOURCE FRAMMEWORK: CLOSE COMPAGNY LIBRARIE PUBLIC WEB: SCIENCE NEWS PAPER LIBRARIE: COST PROJECT FILING: Tools assessment librarie and material assessment project librarie:career centre ENTRY CRITERIA /TASK BOOKING MAGAZINE ID ORDER BOOKING TOPIC BOOKING COST BOOKING TOPIC PROJECT COST COMPAGNY DESIGN COMMENT REVIEW WEB SITE: NEWS PAPPER MAGAZINEGUIDELING TVET OUTCOME EXHIBITION ID PROJECT COMPAGNY ENTRY CRITERIA TASK BOOKING MAGAZINE ID ORDER BOOKING TOPIC BOOKING COST PROJECT COST COMPAGNY DESIGN Inventory framework education lesson plant portofolio teach engineering : 4x6 subject = , 120 volume record textbook , engineering nated n1,n6/vs 10 copy exam papper theory practical subject : Literature code practical trade , eic nated teach code work .. Inventory engineering framework assessment plant work project formulation note book Code engineering TITLE: ASBN: AHTHORY: SUBMISSION: ORDER BOOKNG ACCOUNT: EXHIBITION JOB BOOKING COMPAGNY: TRADE BUSINESS JOB : EXHIBITION POST JOB JOB ENGINEERING STUDIE POST TECHNCAL, SCIENCE ENGINEERING ENTRY POST EXHIBITION, S JOB SECURITY /ENTRY STUDIE, POLICY: ENTRY EXHIBITION SCIENCE ENGINEERING JOB DISCOVERY NATURAL ANALYSE INVESTIGATE DEVICE JOB JOB REQUIREMENT: JOB ABSTRAL: JOB PURPOSE: JOB SUBMISSION JOB KNOWLEDGE: SCORE: MISSION, VISION GOAL AMANDEMENT, REWARD , EARNERD BADGET RECORD SCRIT CERTIFICATE POINT LOYAL COPYRITHH JOB Cost project estimation value award studie discoverie revised cost made : labour insurance coid award , social work ENTRY CRITERIA TASK BOOKING MAGAZINE ID ORDER BOOKING TOPIC BOOKING COST BOOKING TOPIC PROJECT COST COMPAGNY DESIGN Discovery sciebono 16pg review R Assessement Career R Scie bono discovery centre , scie bono science career cente my journey of self discovery Discovery R guide Assessment consider R How to build your self belief system R How to play free online casino games R Learn how to play my strategy my life from in fact how to be successful R Learn how to play roulette R Learn how to play blackjack -workplace readiness 2 career development anticipate R Activity example tip toolkit R Topics: career planning , wath is career yourself - Exploring your option - Making informed career - Take action education skill civi Birthday parties Id guid Assessement R2200 R2500 Planetarium paking Clumbing wall package secret lab Merseta , inseta , Guide Chieta Assessment R Manufacturing engineering and related service seta Determine level framework manufacture level subject open ,vocation ocuupation , skill program , registration learning , rpl programe registration difference Occupation tvet college list Skill employment unity existing emp[loyer Minin qualificsion Saqa , -civil engineering saiee -science and technologie / nrf/saaata R Guide joint the dynamic wanted of mining and mineralised Topic:s building concret road way municipility Topic: nanotechnologie electronics nono science concil science , material semie conductor safety , transistor computer memo rom ram , Topics industrie , industrial , electrical building draw Gr0 g Appeal statement result .award degre diploma certificate n engineering studie Inbox tshingombe fiston Tue, Dec 26, 2023, 12:25 PM to me, tshigombekb, maraba.a, lundt.s@dhet.gov.za, tena.m, lutuka.m, president, esther.rammuttla, modiba.d, dmandaba, callcentre, careerhelp Application Ref :Applications letter number : 2023/1226 ADDRESS:PRIVATE BAG X 174 ,PRETORIA 0001 123 FRANCIS BAARD STREET PRETORIA TEL:0123235618 ---------- ENQUIRY NUMBER: DHET : DOCKET NUMBER :2023/1226 INFORMATION MANAGEMENT SYSTEM - INSTITUT COLLEGE NAME :ST PEACE COLLEGE -ID: NUMBER: TIRC0G000910610 -REGISTRATION NUMBER: STUDENT -C07004010109 -SARS VAT NUMBER: 9232282382 -MERSETA : 17_QA/ACC/1311/17 -SAQA REGISTRAR STUDENT NUMBER:2010022032812,2004007064382. -email adress: tshingombebk@gmail.com -Alternate email address: tshingombefiston@gmail.com ---------- ;---------- APPEAL DECISSION RESULT RELEASE: APPLICATION NUMBER: Saqa: institut foriegn .saqa transcription meeting 71638 dr congo requirements graduate award diploma nqf .high certificate no meeting .leave school .expended assessments .exam d etat diploma .certificate professionek .certificate informatics mathematicsvoffics ; result outcom primaryb status registration saqa asset 09121 .saqa institut 30_ 39 nc assess policy.IE099 ,saqa id 67qO certificate advance phase teach .n1 saqa id 63375.id 67491 entrance .n diplomat -Qualification title national N diplomat engineering. -nqf level:6 . -date submitted to dhet :1105/2023 -date process . DHET -Timetable /50111002 -N1:engineering studie -ID:2004007064381 -ID:2100002023812 ---------- Dear .mr minister of education dhet and deputy member of dhet .tvet college examination directorat and authority competencies. Governments president I' mr tshingombe tshitadi ;acknowledge student st peace college candidat examination career student follow course in duty of nated in rsa 2019 to 2024 , i 'm appear to your department goverment institution for allegation view no result of statement id candidat engineering n1.,n2, n,3,n4 ,n3 and n diplomat saqa outcom in irregularity final n5,n6 /nqf 6. Examination national examination was not delivery in the time external assessments committed irregularities. 1.my motivation and disciplinary assessment submitted my portfolio on line irregularityb november invalide subject n3 trade theory electricakbtranscript the result of assessment was note release reson irregularity n3.subject n4 .subject fail druip result february 2022 .directorat assessment transcript material .statement affidavitsubmitted st peace college registrar shalom technical and afric institut college no result outcom .after 15 days was result scaling n1.n2.n3but statement didint come out not print out by registrations resonement inconvenient. Arbitrary irregularity on februay i submitted topics saqa qcto dhet email result of saqa documentation; filing dbe dhet .the commited was under investigation soon to finalyse . 2. 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Copy of completed transcript mark sheet academic record.proof payment if not meetings requirements can resubmitted again.non compliant; 27 july 2021 application above doe s not meet saqa Final award school diploma degre certificate in 48h . -that my requested letter to the authority minister for my result statement certificat over the date review n diploma 24 month.18 month nated examination to resolve problem after examination irregularities materiel that final result n4 and new re certificate body insurence investigation result center assessment outcome years icass total tvet for my institute st peace college institu and externsl certificate n1.n3 afric training institute and shalom technical collection print out was not in my application for diploma response from dhet submitted to resolve conflic assessment examination . -your sincerely Signe :Tshingombe Tshitadi ---------- Appeal statement result .award degre diploma certificate n engineering studie ---------- Sign :Tshingombe Tshitadi ---------- Dear .mr minister of education dhet and deputy member of duet .vet college examination directorate and authority competencies. 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http://www.dhet.gov.za/SitePages/Inst_TVET1.aspx Please check the following websites links for possible funding opportunities: Please note that NSFAS will reopen soon for 2024 academic year. http://www.nsfas.org.za/content/ Other bursaries: https://www.careerhelp.org.za/funding https://www.gostudy.net/bursaries Please find a list of TVET Colleges and check their courses. http://www.dhet.gov.za/SitePages/Inst_TVET1.aspx Congratulations, the job offer (99) Artisan-Electronics CT is intended to you! Inbox SARS Talent Acquisition Thu, Feb 8, 3:49 PM to me Hello tshitadi tshingombe, Congratulations, your job application was successful and we are pleased to extend the job offer (99) Artisan-Electronics CT to you. We look forward to you accepting the job offer and joining this team. Respond to Job Offer Sincerely, South African Reserve Bank Recruiting Team tshingombe fiston Thu, Feb 8, 7:05 PM I accept the offer. tshingombe fiston Fri, Feb 9, 11:30 AM On Thu, Feb 8, 2024 at 3:49 PM SARB Talent Acquisition wrote: Hell : Appeal statement result .award degre diploma certificate n engineering studie Inbox Lundt, Sonnika Mar 14, 2024, 7:19 PM to me Kindly note that Ms Tsehetlo will not be available in the office of the Minister. Kindly contact our call center: CallCentre@dhet.gov.za / 0800 872 222 or visit our website: www.dhet.gov.za Best wishes Mrs Sonnika Lundt University Capacity Development Department of Higher Education and Training 123 Francis Baard Street, Pretoria Central Room 506_012 312 5440 lundt.s@dhet.gov.za From: tshingombe fiston Sent: Thursday, 14 March 2024 12:51 To: tshingombe fiston ; tshigombekb@gmail.com; maraba.a@dhet.gov.za; Lundt, Sonnika ; tena.m@dhet.gv.za; lutuka.m@shet.go.za; President Hotline(DPME) ; esther.rammuttla@dst.gov.za; modiba.d@dhet.co.za; dmandaha@csir.co.za; callcentre@dhet.gov; CareerHelp ; confirmations@saqa.co.za; verification@qcto.org.za; dfqaas@saqa.co.za; saqainfo@saqa.org.za; sonnika.s@dhet.gov.za Subject: Re: Appeal statement result .award degre diploma certificate n engineering studie Some people who received this message don't often get email from tshingombefiston@gmail.com. Learn why this is important Support Thank you. Your question was successfully submitted to Microsoft Support. Please keep in mind microsoftcommunity.com and microsoft.com are both valid email domains used for communications related to your support request. Incident title: engineering data portal Support request number: 240511006000031992 Severity rating: C Expect response within: 8 Contact preference: Email Name: Tshingombe Tshitadi Email address: tshingombefiston@gmail.com Contact numbers: 0725298946 Thank you, Microsoft Support Additional Information Product: Developer, Student and Startup Programs/Azure for Education/Licensing Information This message from Microsoft is an important part of a program, service, or product that you or your company purchased or participates in. Microsoft respects your privacy. Please read our Privacy Statement. One Microsoft Way, Redmond, WA 98052 USA On Tue, Mar 12, 2024 at 2:52 PM tshingombe fiston wrote: Turn on more accessible mode Skip to main content Turn off Animations Together Moving Post-School Education and Training Forward • Home • About Us o Minister o Deputy Minister o Director-General o Office of the CFO o Corporate Services o Planning, Policy & Strategy • Universities • Vocational Education • Community Education • SETAs • Skills DevelopmentCurrently selected • Media Room • Resources • Contact Us Isita back log project : Reference ; Certificate backlog: SITA, DHET, Umalusi; with Deputy Minister Higher Education, Science and Innovation 18 February 2020 Chairperson: Mr M Mapulane (ANC) Share this page: Meeting Summary DHET explained that certification backlog is defined as all eligible candidates who met the certification requirements but were not yet issued with certificates within three months from results approved by Umalusi. It reported to the Committee on: • Progress and status of the certification backlog statistics • Key obstacles to eliminating the certification backlogs • Certification backlog Roll out Plan aimed at addressing the obstacles • Update on progress of the new Integrated Exams IT System (IEITS) • Challenges experienced in the development and deployment of the IEITS. The statistics fluctuate due to the following reasons: - SITA is busy refining the scripts and system certification backlog. - Instability of the examination information system to process the eligible candidates for certification. - 2019 August exam cycle outstanding certificates have been included in the backlog totals as they now meet the certification backlog's criteria - Candidates who had outstanding raw marks in the previous report to Committee which have since been summated by TVET colleges who are now eligible for certification are included in the backlog. - Candidates who had irregularities with their assessments that have been cleared by the irregularity committee and have now been captured by the examination administration on the new exam system, the Integrated Examinations Information Technology System (IEITS) that has been working on with a private service provider. Currently, system requirements and specifications for NC(V) L2 and NATED N4-N6 examination process have been documented and tested with the user community and Umalusi. The focus is now on finalisation of the interfaces with key stakeholders such as Umalusi, SAQA, SITA, Print Bureau, Department of Home Affairs, Department of Labour and other departments. The deployment of the new solution was planned to be implemented in a staggered approach per qualification over four months to ensure business continuity. It is envisaged that the deployment will now commence in August 2020. It has been moved from June to August due to comprehensive quality gates for Functional Acceptance Testing (FAT). SITA informed the Committee that backlog reduction will be ramped up in the next few weeks. Besides the technology, SITA will appoint a dedicated programme manager with focused programme resources that will be cross utilised and rolled over to work on activities where quicker reduction benefits can be achieved. There are dedicated DHET and SITA officials that will be allocated to the Backlog Day Zero programme. There will also be swift dataset turnaround times by all stakeholders. SITA projected that there will be about 80% reduction of the backlog by 30 June 2020. Looking at Phase One, this target would be achieved but it will certainly be complex. SITA requested steady collaboration between DHET and Umalusi to ensure that this possible and each stakeholder has been assigned its role in the business model. Umalusi accepted that it was at the end of the value chain amongst the stakeholders responsible for the backlog. Its mandate is solely providing quality assurance and certification of datasets submitted by DHET. If the datasets submitted were correct, its turnaround times would be reduced significantly, otherwise the datasets are sent back for the colleges to correct. Members asked how long the DHET has been using the 12 examination cycles and if it was possible for this to be reviewed; who exactly was responsible for the backlog; outreach campaigns on the certification process undertaken; why the CSIR was not appointed for the development of the IEITS; if SITA had an innovation partnership with CSIR; Umalusi turnaround times for consolidation of datasets; reasons for the seeming increase in backlog statistics; colleges failing to provide the data for certification; challenges in the legacy IT system; and if exam paper leakage had been resolved. Members wanted to know who was responsible for the development of the IEITS; if DHET had capacity to deal with the data from Community Education and Training (CET) and TVET colleges for migration to SITA and Umalusi; why SITA was placed under administration; if SITA had the capacity to handle the Day Zero commitment and exam cycle turnaround times; if consequence management has been implemented for those responsible for the backlog. Members were not happy that the stakeholders had taken so long to solve the certification backlog and asked why the service provider contracted to develop the new system had taken five years. However, there was satisfaction regarding the tangible commitments made and the timeline put in place to reduce the backlog. Meeting report The Chairperson noted that the Committee had visited the State Information Technology Agency (SITA) and was satisfied with the briefing it received. It was unfortunate that the Committee was not briefed today, particularly when Day Zero will come for the printing of certificates. The newly appointed SITA Administrator is also present and that is appreciated. SITA had been placed under administration since the start of the year. Certificate Status: TVET, CET, Private Colleges: DHET briefing Ms Violet Tshetlo, DHET Chief Director: National Examinations and Assessment (TVET, CET and Private Colleges), explained that certification backlog is defined as all eligible candidates who met the certification requirements but were not yet issued with certificates within three months from results approved by Umalusi. Thus anything after March constitutes a backlog for exams written in November/December. The Department runs 12 examinations cycles in an academic year. November and December are peak months for the certification process. She reported to the Committee on: • Progress and status of the certification backlog statistics • Key obstacles to eliminating the certification backlogs • Certification backlog Roll out Plan aimed at addressing the obstacles • Update on progress of the new Integrated Exams IT System (IEITS) • Challenges experienced in the development and deployment of the IEITS. The statistics fluctuate due to the following reasons: - SITA is busy refining the scripts and system certification backlog. - Instability of the examination information system to process the eligible candidates for certification. - 2019 August exam cycle outstanding certificates have been included in the backlog totals as they now meet the certification backlog's criteria - Candidates who had outstanding raw marks in the previous report to Committee which have since been summated by TVET colleges who are now eligible for certification are included in the backlog. - Candidates who had irregularities with their assessments that have been cleared by the irregularity committee and have now been captured by the examination administration on the new exam system, the Integrated Examinations Information Technology System (IEITS) that has been working on with a private service provider. Currently, system requirements and specifications for NC(V) L2 and NATED N4-N6 examination process have been documented and tested with the user community and Umalusi. The focus is now on finalisation of the interfaces with key stakeholders such as Umalusi, SAQA, SITA, Print Bureau, Department of Home Affairs, Department of Labour and other departments. The deployment of the new solution is planned to be implemented in a staggered approach per qualification over four months to ensure business continuity. It is envisaged that deployment will now commence in August 2020. It has been moved from June to August due to comprehensive quality gates for Functional Acceptance Testing (FAT). SITA commitment to Backlog Day Zero and its role in the New Exam System Mr Vernon John, Head of Department: Administration – Acting at SITA, reported that the pace of reduction will be ramped up in the next few weeks. It will look much better due to the revised approach that has been adopted. SITA's approach included a multi-face approach with phase one looking at data analysis alignment. The phase 2 focus will be more on deep data analysis and cleansing, using a more modern technology. This is the work that will be done outside the historical system. Besides the technology, SITA will appoint a dedicated programme manager with focused programme resources that will be cross utilised and rolled over to work on activities where quicker reduction benefits can be achieved. There are dedicated DHET and SITA officials that will be allocated to the Backlog Day Zero programme. There will also be swift dataset turnaround time by all stakeholders and for resolving candidate records that have not been approved by Umalusi. [See slide 7 for a target timeline diagram on Backlog Day Zero] SITA projected that there will be about 80% reduction of the backlog by 30 June 2020. Looking at Phase One, this is going to be achieved but it will certainly be complex. SITA requires steady collaboration between DHET and Umalusi to make this possible and each stakeholder has been assigned its role in the business model (see slide 12 for DHET, SITA and Umalusi responsibilities). The role of SITA in the new system includes: - Providing advice and information on the current exam system to DHET service provider - Extracting data from current exam system and make it available to DHET service provider to port it to the new exam system - Hosting new exam system on the SITA cloud infrastructure, and - Change management and training services. SITA will not be rendering services such as system maintenance and enhancement services and functional application support services. However, SITA will ensure that there is proper governance at the ground level. SITA will report on a monthly basis to provide updates on the reduction of the backlog certification as Day Zero is looming. In conclusion, Mr John said that SITA executives are committed to reducing the backlog in collaboration with DHET and Umalusi. The Chairperson asked how many times will the commitment be made that Day Zero will be the end of the backlog. Committee Members Mr Mandla Nkomfe and Ms Kenyatta Accountability Author left a dedicated technical resources to get the job done. There is a new software solution which is basically an easier database to get the work done for DHET to stop talking about the legacy system. The data from the legacy system will now be migrated to the new database to clear the backlog. The commitment is that at least minimum two weeks before going live with each module, the backlog should have been cleared. This is because going live on the new system with a backlog will mess it up. The commitment is minimum two weeks but it could be a month or two months earlier. That is the monthly reporting that will be provided through the Department. The additional technical resources and the new database will make a big difference. Umalusi on certification Prof John Volmink, Umalusi Council Chairperson, noted that there had been some improvements in the past year, particularly in the quality of the question papers as well as the improved preparedness of the markers. This led to a better engagement during the marking guideline discussion. On the certification mandate, Umalusi issues certificates to all deserving candidates. To this end each certificate must be issued with correct information. The grace period is allowed after the results have been released and during that period a candidate can enquire on their marks and re-checking of the scripts can take place and consolidation done to ensure that the correct marks are captured. It is after this process that certification process takes place. In conclusion, Umalusi has entered into a new service agreement with the Government Printing Works to provide Umalusi with certificate background paper for the period up to 2021. So far, Umalusi has received 500 000 certificate background papers and it is expecting another 500 000 at the end of February 2024. The order for 2021 has already been submitted. There are some challenges that have not been able to pay Umalusi for the certificates. These private colleges are not part of the backlog statistics. Individual candidates have an opportunity to pay Umalusi directly to receive their certificate. To resolve this problem, the college registration fees should include the certification fee to ensure students are not disadvantaged by the college being in arrears. On the certificate backlog, Dr Eva Sujee, Umalusi Senior Manager: Qualifications, Certification and Curriculum, reported that Umalusi processes datasets when they are received and so there is usually no backlog on datasets received. Dr Sujee stated that Umalusi must protect and ensure the integrity of the qualifications on the National Qualifications Framework (NQF). Stringent quality assurance measures are in place to ensure the quality of data. Umalusi will continue to process and quality assure all requests for certification with due diligence. Umalusi is committed to support DHET and SITA in solving the problems preventing the certification of candidates. The Chairperson noted that the situation is now much better than when the Committee visited the SITA offices two weeks ago. He felt that the Committee was now getting clear answers on when Day Zero will come to fruition and how that process will be achieved. He thanked the SITA Administrator for the work that has been done so far. He would like DHET to provide clarity on the assurance that the backlog will be cleared by the end of March and August 2021 the system will be deployed. He was concerned that there is a long turn around time for the certification backlog, he did not understand why it was delayed so much. The Committee had scrutinised the Legacy Report of the previous Portfolio Committee. That committee was also concerned about this matter. He sought a firm commitment from the Department and advised that the service provider should be made aware of this so that there are no delays from the service providers' side. Discussion Ms J Mananiso (ANC) asked how long DHET has been using the 12 examination cycles and if it was possible for this to be reviewed. It has been identified as leading to the backlog. On slide 6, SITA has assisted in addressing the backlog challenges but there is misalignment in the presentation about who exactly is responsible for what. On slide 7, it seems DHET is good at identifying problems but it moves at a very slow pace to resolve the problems. On slide 8, memos have been issued to colleges but it is unclear how the backlog will be dealt with at college level. There is a lack of outreach programmes and marketing to spread the word that certificates are available when dealing with the backlog. She asked if DHET had approached the CSIR when procuring the IT system. She asked if there are any partnerships with CSIR insofar as innovation. To Umalusi, she was concerned about the turnaround time for the consolidation of marks and asked about the turnaround time. Mr P Keetse (EFF) said a disruption is when a learner or student fails to get their certificate for 25 years. There are new interventions that have been commanded but what often happens is that the officials coming to Parliament are not the same officials that are on the ground. Members should not be undermined in terms of knowing what actually happens on the ground. He questioned the capacity and its effectiveness to reduce the backlog. Based on the statistics, it seems that it has increased instead of decreasing. This is clear from the statistics provided. Members were informed that has the capacity to print one million certificates in a day provided that DHET has provided the data. If that was the case, he did not believe that the backlog would have been a problem if the officials were being honest. He asked which colleges were not providing the data required by DHET so certificates can be printed. On the legacy system, he asked if the problems with the system were systemic and how it is affecting the backlog. Umalusi has come to the Committee before and submitted there was leaking of exam papers in TVET colleges. Mr Keetse believed this problem is still on-going. He asked to what extent paper leakages have been resolved, if it has been resolved? Lastly, there should be a thorough diagnosis of where the problem really is. From the presentations, there is no accountability and clarity on from where exactly the problem comes. Officials were being 'wishy-washy' about the truth. Mr B Nodada (DA) suggested that the Committee should invite Resolve IT to ascertain the delays in the implementation of the system. There are TVET colleges that have complained at ground level about the IT systems that they use to capture data. We speak of the Fourth Industrial Revolution but yet government departments cannot get the basics right such as system migration of data from one stakeholder to the other. Entities should not give the picture they think the Committee wants to see. The Committee needs to be told where the problem really is and the solutions to the problem. Day Zero has now been announced and the Committee has been informed that some certificates have been at the exam centres for up to six months. Therefore, it is critical that the communication between the stakeholders is effective. He suggested that the CSIR be roped in to assist the Department, even to the point of procurement, as they have the technical expertise to do so. It went out on an open tender process and the CSIR was also eligible to bid. In the November 2019 examination, there were no exam paper leakages and this was publicised. As for sharing the blame, it is important to note that this process does require everybody to work together. However, between DHET and SITA, we can accept portions of the blame. Even if one segment of the process works perfectly, you would not get a certificate until the entire value chain had no loopholes. Ms Tshetlo replied that DHET does have human capacity and has a dedicated team that will run with the qualification and they deal with the regions. That capacity is adequate for the current examinations and the current qualifications. However, that may not be the case in the future if more qualifications and examinations are added without adjusting the available capacity to cater for that. As for CETs, the General Education and Training Certificate (GETC) qualification is run on an agency basis at the provinces and there is support from SITA. It is a collaborative effort between DHET and the SITA. The ICT system for DHET was supported by SITA and it was based on the SITA main frame. It is run from the DHET procurement of the IT system, it was done through an open tender assisted by SITA. The service provider that was sourced came through that process. SITA Response Mr Keyise explained the increased certification backlog statistics on slide 6 of the DHET presentation, particularly on the National Accredited Technical Education Diploma (NATED): Engineering Studies. There was a 1 858 increase in the backlog. However, the statistics do not show within the four month difference when the date was captured and how many certificates were printed. The Chairperson asked why the Committee was not shown. As for partnering with CSIR will depend on the terms of reference indicated in the tender. The two are planning to partner in. CSIR has research capacity and SITA will report to the Committee on the research work planned ahead. It is indeed true that the systems in DHET, TVET colleges, SITA and Umalusi do not really talk to each other. There is no simpler integration of the government systems. The business rules have not been cleaned yet in terms of making that possible; it is a legacy problem of government. Old systems are used but the business rules have not been changed to make life easier and we are now reactive in solving the challenge. It is not being solved holistically to ensure that once it is fixed from a departmental level, it trickles down to the TVET college level. We are now going to move data from a legacy system into a new system that fits with the technology advances of today. This means that you can process the analysis of that data quicker and it can be done with minimal resources. Broadly the partnership with CSIR speaks to applied research on 4IR in simple terms. We want to partner and see how we can develop a localised ICT research. SITA will also be working with CSIR to build a cyber security academy and ensuring that there are internal skills based in government to refrain from going to the private sector all the time. On Resolve IT, SITA will also be analyzing why it took so long for the service provider to develop the system. SITA is not responsible for the delays in the certificates. Secondly, DHET handles a number of examinations per year, as opposed to the Department of Basic Education which handles only one examination. So the point around Day Zero means that we can only address the backlog we have since the 1990s. However, there are challenges were people think they qualified and demand to be certificated. This is encompassed by all the other challenges. Continual reports will be furnished to the Committee based on the set targets as we approach Day Zero. The Chairperson said that he was happy with the Day Zero commitments. The Committee will hold DHET accountable for these commitments. He would have liked to see DHET making similar commitments as SITA had. The TVET and Community Education and Training (CET) colleges are the most neglected in the Post-School Education and Training (PSET) sector. The universities seem to be the top priority. 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DHET -Timebable /50111002 -N1:engineering studie -ID:2004007064381 -ID:2100002023812 _____ Dear .mr minister of education dhet and deputy member of dhet .tvet college examination directorat and authority competencies. Governments president t' mr tshingombe tshitadi ;acknowledge student st peace college .dhet.tvet college examination directorat and authority competencies. Governments president t' mr tshingombe tshitadi ;acknowledge student st peace college nated in rsa 2019 to 2024 , i 'm appear to your department goverment institution for allegation view no result of statement id candidat engineering n1.,n2, n.3,n4 .n3 and n diplomat saqa outcom in irregularity final n5.n6 /nqf 6. examination national examination was not delivery in the time external assessments committed irregularities. 1.my motivation and disciplinairy assessment submitted my portofolio on line portal dhet release resultat statement and finalized award diploma by examination committed irregularityb november invalide subject n3 trade theory electricakbtranscript the result of assessment was note release reson irregularity n3.subject n4 .subject fail druip result february 2022 .directorat assessment trascript material .statement affidavitsubmitted st peace college registrar shalom technical and afric institut college no result outcom .after 15 days was result scaling n1.n2.n3but statement didint come out not print out by registrations resonement inconvenant. Arbitrary irregularity on february i submitted topics saqa qcto dhet email result of saqa documentation; filing dbe dhet .the commited was under investigation soon to finalyse . 2. I received to dhet committed assessment examinations irregularities the retain , invalide subject 23 febvuary 2022 the time table of n3 subject admtration exam with those subject trade . electrical trade theory .4 subject november 2023 examination the result statement for last examination was not print outcome n1.n2 submited n3 last time table exam only last n4 exam statement prit outcome and not time table for n6.,n5 received in examinations november suspended in 11 month for irregularities in assessment. Exam not release and not given to me. 3. I have not received my

candidat examination career student follow course in duty of nated in rsa 2019 to 2024 , i 'm appear to your department goverment institution for allegation view no result of statement id candidat engineering n1.,n2, n,3,n4 ,n3 and n diplomat saqa outcom in irregularity final n5.n6 /nqf 6. examination national examination was not delivery in the time external assessments commited irregularities. 1.my motivation and disciplinairy assessment submitted my portofolio on line portal dhet release resultat statement and finalized award diplomat by examination commited irregularityb november invalide subject n3 trade theory electricakbtranscript the result of assessment was note release reson irregularity n3.subject n4 .subject fail druip result february 2022 .directorat assessment trascript material .statement affidavitsubmitted st peace college registrar shalom technical and afric institut college no result outcom .after 15 days was result scaling n1.n2.n3but statement didint come out not print out by registrations resonement inconvenient. Arbitrary irregularity on february i submitted topics saqa qcto dhet email result of saqa documentation; filing dbe dhet .the commited was under investigation soon to finalyse . 2. I received to dhet committed assessment examinations irregularities the retain , invalide subject 23 february 2022 the time table of n3 subject admnistration exam with those subject trade . electrical trade theory .4 subject november 2023 examination rhe result statement for last examination was not print outcome n1.n2 submited n3 last time table exam only last n4 exam statement print outcome and not time table for n6.,n5 received in examinations november suspension is 11 month for irregularity .follow tvet guideline assessment. Exam over the date insurence body frameworks qualification and labour department uif coud claim no outcom in career portal was outcom granted national fund skill for extra subject topics irregularity rwiten qcto practical was not granted scope portal research qcto . 3.allegation result statement retain dhet :.saqa n diploma n diplomat application for n4.6 diplomat final was no granted n4.level 4 diploma icass years college in my portofolio submitted on line marked exam n5.n6.subject additional assessment information by institution isat icass. Ref outcome saqa result 16 jan 2023 on line marischen masoga send submission number foreing institut inquirie 9370. Foreign institutions inquiries 6594 Section 29(a)policy criteria saqa nqf amanded march 2017 institut ...framework nqf foreign award must meet for recognise. Saqa accepted only qualifications official examination body country ..external examination based , 26 july 2022. 4.allegation to qcto retain on ; saturday22 january 2022. ; with regard n certificate direction dhet education training (for n4 ,n6 n diploma or umalusi n3 can not assist with qcto issued Sat .:10 march 203 qcto .certificate@qcto.org.za answer soc please note that the qcto does not issue any of results -lindiwe grace 28 may 2023 inquire to national and assessment college .i have copied our QA unit they will be able to rspond to accorlingly regardc Qcto khuluvhe labour market intelligences lmi esteemed stakeholder 21 aug 2023 was not grante - i receiving Allegation to saqa retain on.10 march 2023 procedure for evaluatiin pro forma invoice .copy id passport.copy final award graduation certificate. Copy of completed transcript mark sheet academic record.proof payment if not meetings requirements can resubmitted again.non compliant; 27 july 2021 application above doe s not meet saqa Final award school diploma degre certificate in 48h . -that my requested letter to the authority minister for my result statement certificat over the date review n diploma 24 month.18 month nated examination to resolve problem after examination irregularities materiel that final result n4 and new re certificate body insurence investigation result center assessment outcome years icass total tvet for my institur st peace college institu and externsl certificate n1.n3 afric training institut and shalom technical collection print out was not in my application for diploma response from dhet submitted to resolve conflic assessment examination. - your sincerly . Sign :Tshingombe Tshitadi

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